Steps to Sustainability:

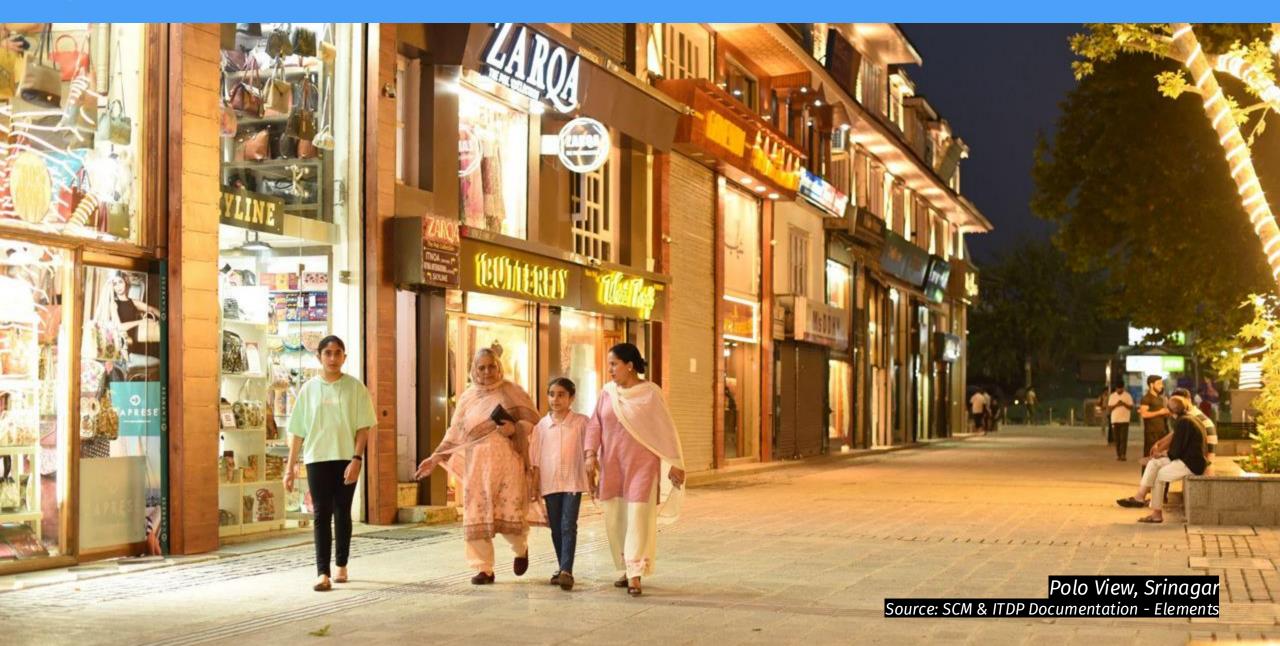
The Walkability
Landscape in Chennai,
India and its Impacts

Madeline Liberman, ITDP HQ madeline.Liberman@itdp.org

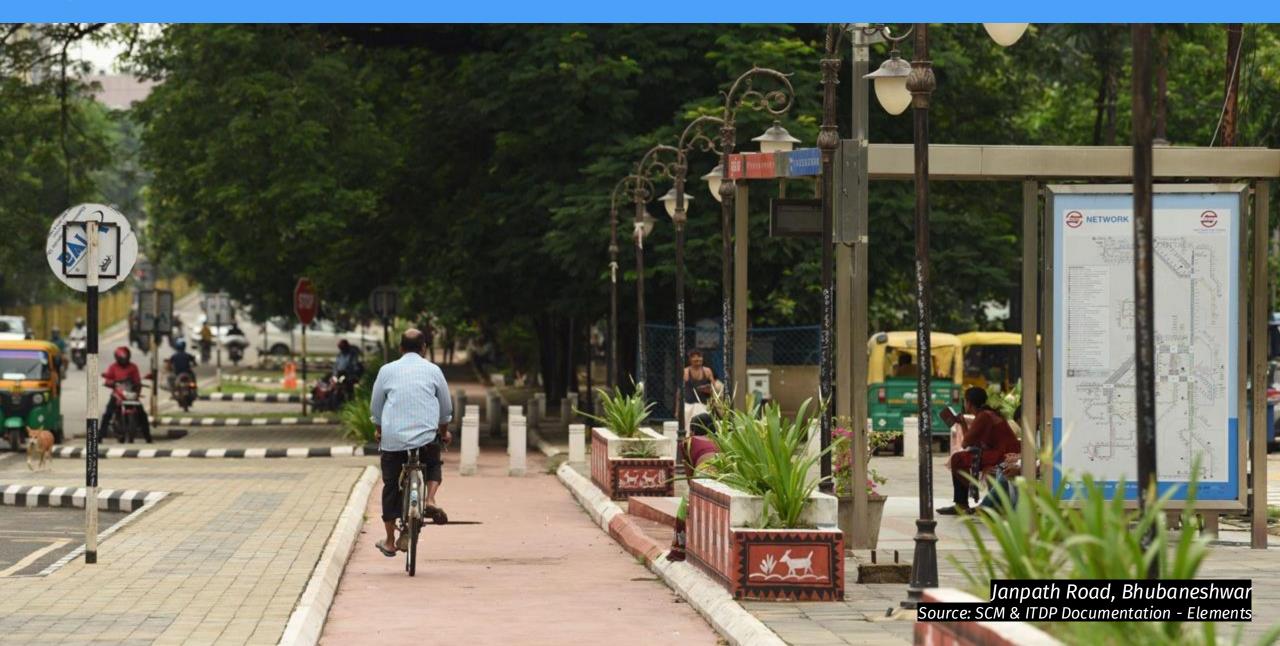
AV Venugopal, ITDP India venugopal@itdp.org



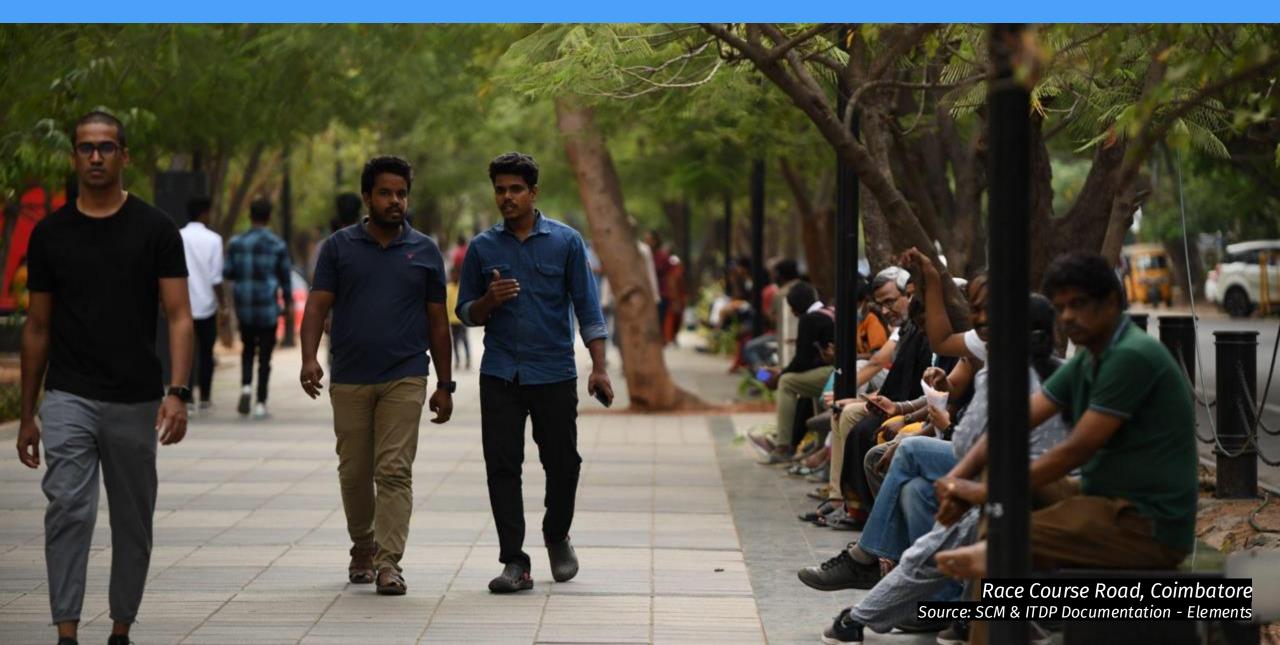




























2020-2023 — Celebrating Healthy Streets



18 cities created 3-year action plans

15 cities adopted Healthy Streets Policies. 17 other cities are working towards adopting similar policies.

33 cities implemented over 570 km of walking and cycling projects, and over 1400 km are underway in 48 cities.



Measures to build support from citizens















Scaling up: Building capacity of officials

Capacity development in decision makers and city officials:

City-level workshops (online and offline)

Coordinating site visits to best practice examples

National Workshops hosted as knowledge partner to SCM for 37 cities and 200 participants in Chandigarh, Bengaluru & Pimpri Chinchwad





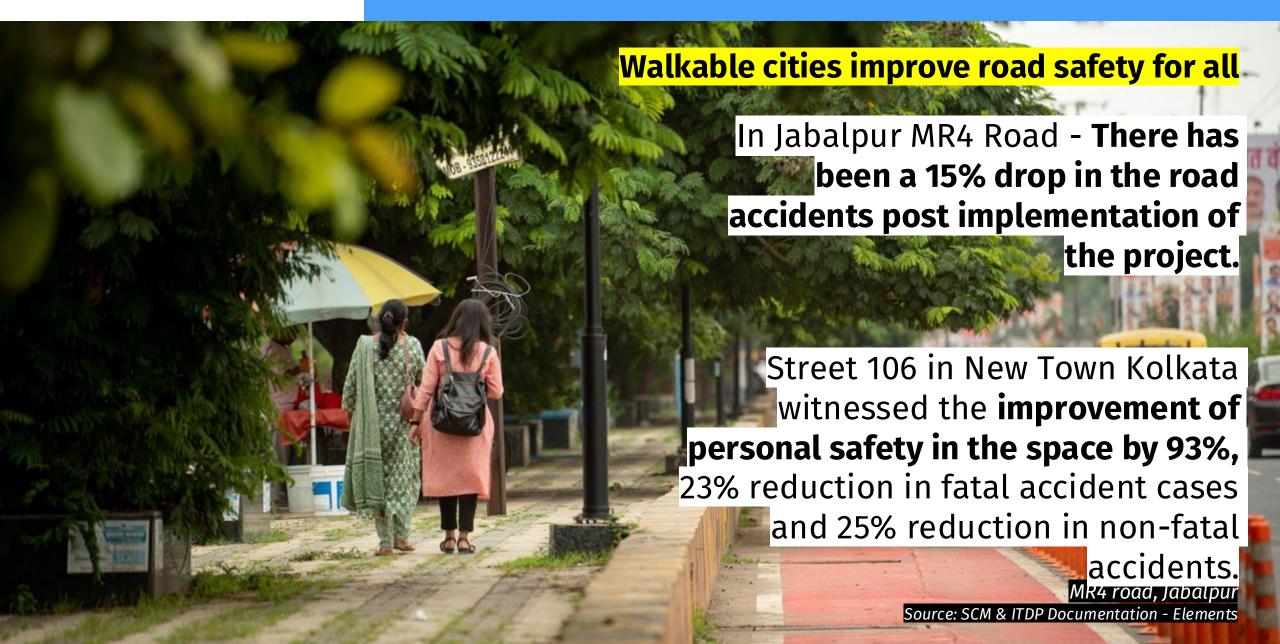








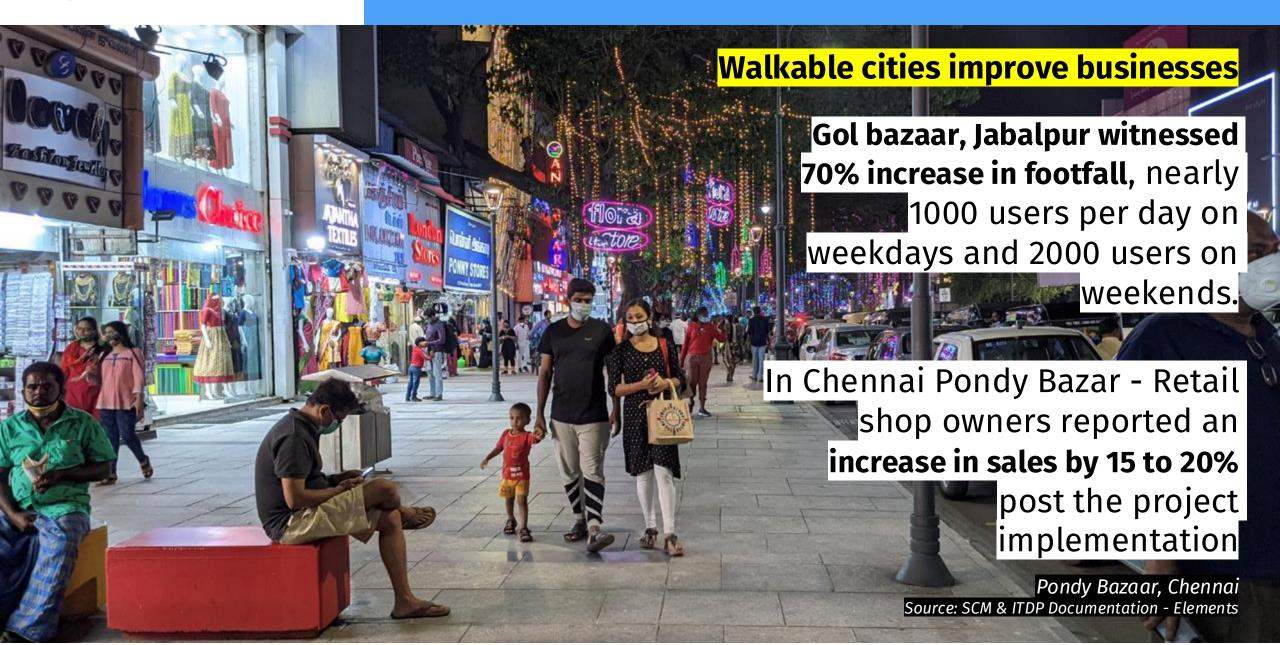




















Chennai's Street Transformation Journey





Chennai's street transformation journey

2013 onwards

Over **80 Engineers from GCC were trained** by ITDP in partnership with School of Architecture and Planning.





2014

Chennai became the **first city in India** to adopt a **Non-Motorised Transport Policy** prioritising it's pedestrians.







2014-15

The Bus Route Roads department empanelled 6 Architects / Urban Designers for designing the identified streets to cater to all road users including pedestrians.

ITDP, along with GCC, conducted **training workshops** for the designers and BRR engineers.

Empanelled Urban Designers & Architects



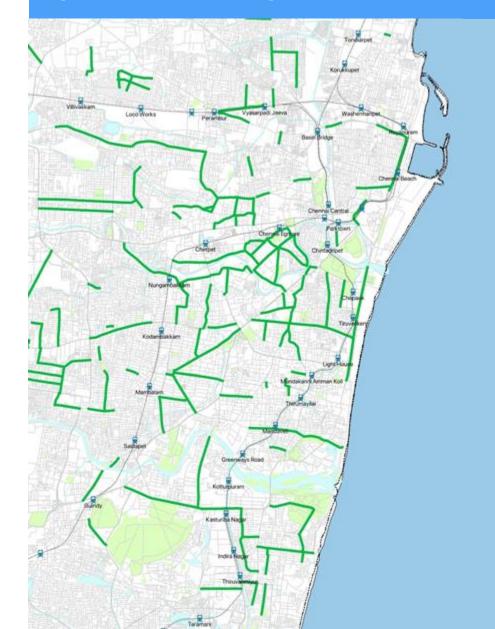


2014-2020

The Greater Chennai
Corporation transformed **Bus Route Roads every year** with
safe and comfortable
pedestrian friendly
infrastructure (~170km in
total*)

The streets were implemented in different phases

Over 170 KM of streets redeveloped (BRR roads)







^{*} Based on data provided by Bus Route Roads department



Pedestrian Plaza Transformation











2020 onwards

The Complete Streets Project will **improve accessibility to**,

- 42 metro stations
- 21 railway stations
- 911 bus stops across the 6 neighbourhoods!

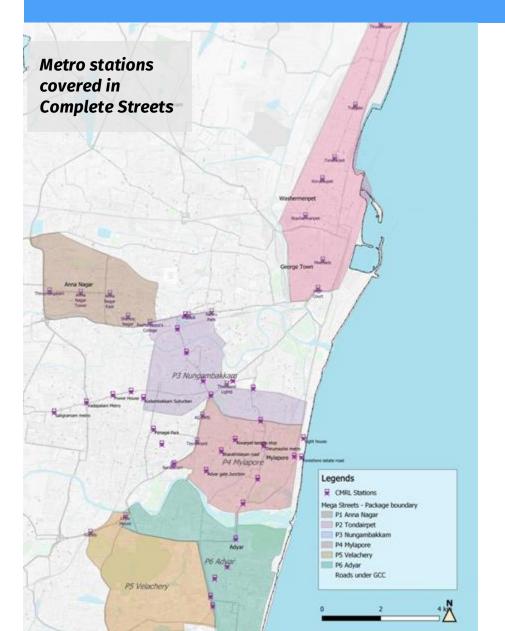
The Complete Streets project will **improve** accessibility to

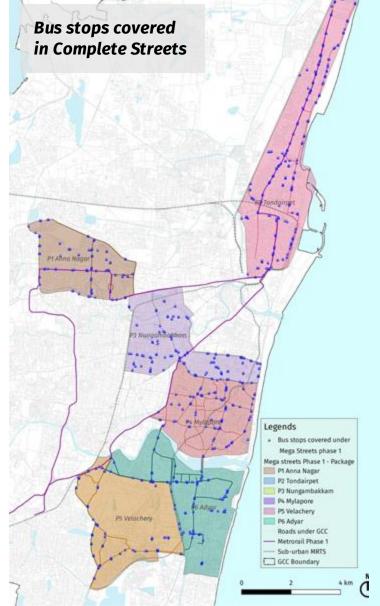
- 610 schools
- 174 anganwadis

and serve,

• **220 EWS settlements** across the 6 neighbourhoods

Scaling up the city's effort







Ongoing implementation

The **World Bank** has initiated a unique collaboration with the Government of Tamil Nadu as the 'Chennai City Partnership' (CCP) in 2020 across three pillars:

(i) strengthening institutions; (ii) enhancing quality of urban services; and (iii) improving financial sustainability of service delivery

Key Feature of PforR:

The Disbursements linked indicators (DLIs) are designed focusing on the physical infrastructure to be developed on the one hand and basing the disbursement of funds upon achieving pre-agreed indicators.









The Impacts of New Footpaths in Chennai

Madeline Liberman, Associate for Monitoring and Evaluations *ITDP HQ*

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ITDP's Impact Evaluation



Steps to Sustainability

THE IMPACTS OF NEW FOOTPATHS ON MODE CHOICE IN CHENNAI, INDIA 2024



Scope: 4 study areas out of 100+ km of footpaths designed and built from 2013-2019

Goals:

- Evaluate the impacts on quality of life and the environment
- Demonstrate the importance of investing in footpaths



Methods



>User Intercept Surveys



> Pedestrian Counts



>Geospatial Analysis



Methods: Climate & Air Quality

User Intercept Surveys





Shift from other modes to walking

Pedestrian Counts





Total distance walked on footpath network



Change in km travelled by each mode



Public Perception Pedestrian Plaza

95% of all users of pedestrian plaza, including 93% women said that the space was more safer after 10pm - after the intervention

100% of users of pedestrian plaza said that the space is more safer for children after the intervention

Nearly 100% of users said that they walk more often after the project on the stretch

76% of users said that they spend more quality time in the space after the project







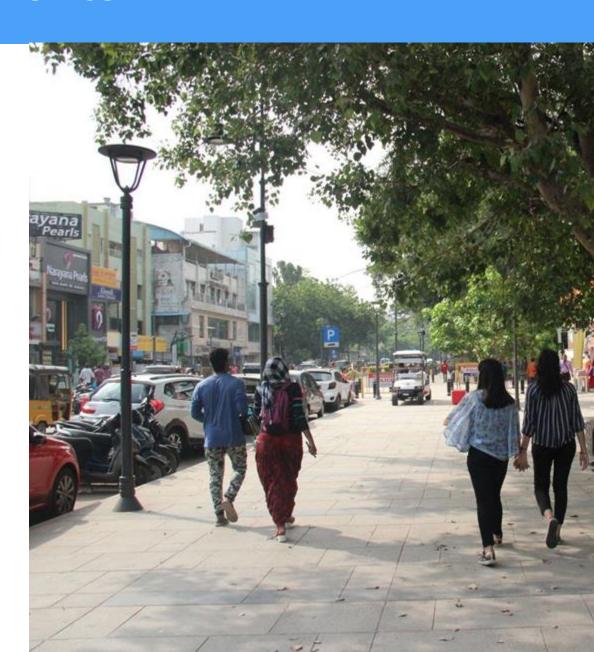
Economic Benefits

TRENDS IN PROPERTY PRICES PER SQUARE FEET

2017 2018 2019
11,500/sqft 11,850/sqft 14,200/sqft

Residential Property prices saw an increase of 20% over a period of 2 years from 11,500/sq.ft to 14,200/sq.ft after the inauguration of the pedestrian plaza.

Source: Study by JLL Consultants for City Corporation





Impact Overview

CLIMATE



Between 4,200 and 12,000 tonnes of CO₂-equivalent emissions are prevented annually (equivalent to taking about 1,000-2,900 cars off the road for one year).

EQUITY



86% of trips that would not have been made without the improvements were made by lower-income and non-earning people.

6% of women would not have taken their trip if the footpaths had not been improved

ACCESS



1.2 million Chennaites
live within a 300-meter
walkable network
distance of the improved
footpaths (11% of the
population)

HEALTH



Reduced vehicle activity results in a reduction of PM2.5 emissions between 150 and 680 kilograms annually.

Increased physical activity prevented 340 premature deaths in 2019.

ECONOMY



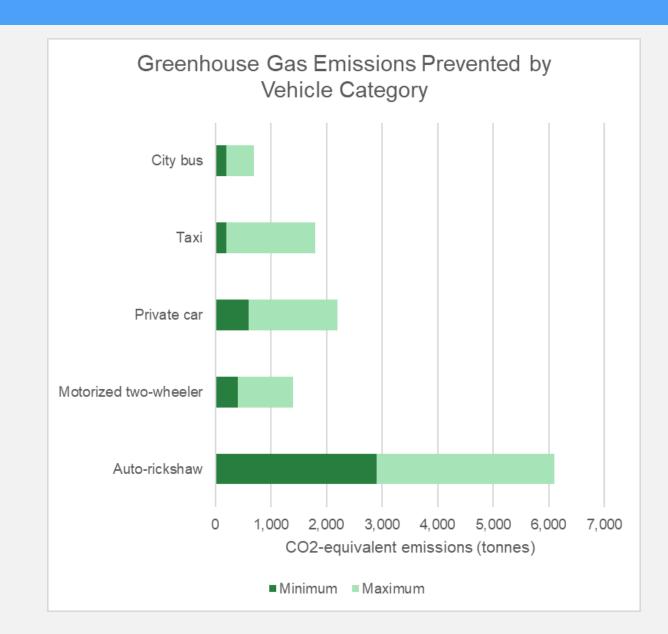
Chennaites who shift to walking from another mode save a total of 2.9 billion (~290 crore) INR each year (USD \$35 million).



Key Results: Climate

Between 4,200 and 12,000 tonnes of CO2-equivalent emissions are prevented annually

Equivalent to taking about 1,000 to 2,900 cars off the road for one year





Key Results: Safety

95% of respondents believe that the streets are safer overall, in terms of both personal security and road safety.

Perceptions of safety by gender among survey respondents

| | | The Street Is Safer Overall Than Before Improvements | The Street Is Safe After 10 pm | The Street Is Safe for Children |
|-------------|-------|--|-----------------------------------|------------------------------------|
| All Streets | All | 95% | 81% | 78% |
| | Men | 93% | 83% | 80% |
| | Women | 96% | 79% | 75% |

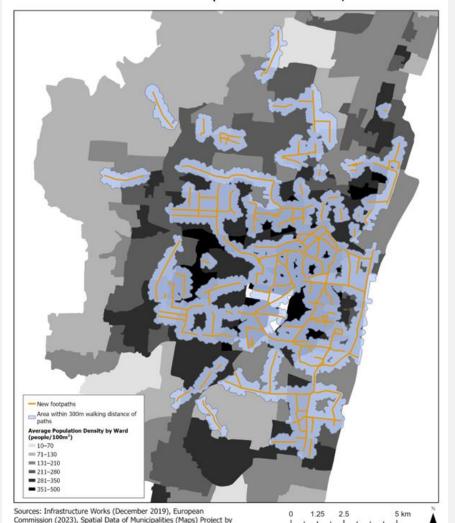
Key reasons for feeling unsafe:

- Lack of other people
- Poor lighting
- Obstruction by parked vehicles



Key Results: Access

Access to New Footpaths in Chennai, 2020



11% of the population of Chennai (1.24 million people) lives within a 300m walk of the new footpaths.

The project improved access to 300 bus stops.



Takeaways

- Investing in walkability leads to tangible and intangible benefits for users and society
- Benefits need to be analyzed by social group to promote equity

