

DIRECTORATE OF URBAN LAND TRANSPORT
URBAN DEVELOPMENT DEPARTMENT
GOVERNMENT OF KARNATAKA, INDIA



shaping the way cities move

**“BUILDING ACTIVE
AND HEALTHY CITIES!”**

28-03-2024

Only one of its kind institution in the country with expertise in transport planning

MISSION

To facilitate implementation of **efficient, sustainable and integrated transportation systems** that enhance the state's economic competitiveness and prosperity while preserving the quality of our environment and neighborhoods.

MANDATES

PLAN

Improved Accessibility | Integrated Mobility

FINANCE

Leverage State Urban Transport Fund | External Funding

ASSIST

Stakeholders in Project Formulation | Appraisal | Technical Solutions | Capacity Building

ENGAGE

Similar Interest Groups | Other Technical Institutions | Community

Facilitating Policy
Framework

Plans focused on safe
and accessible
infrastructure.

Proactive
Engagement with
community

Emphasis on
research and
innovation

Building partnerships

Branding and
communication

1. Facilitating Policy Framework

FACILITATING POLICY FRAMEWORK

Bengaluru Metropolitan Land Transport Authority Act (BMLTA)



ಭಾಗ - ೪ಎ Part - IV A	ಬೆಂಗಳೂರು, ಸುಬ್ಬಾರ, ೧೨, ಜನವರಿ, ೨೦೨೩(ಪುಷ್ಯಾ, ೨೨, ಶಕವರ್ಷ, ೧೯೪೪) BENGALURU, THURSDAY, 12, JANUARY, 2023(PUSHYA, 22, SHAKAVARSHA, 1944)	ಸಂ. ೨೦ No. 20
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ಸಂಸದೀಯ ವ್ಯವಹಾರಗಳು ಮತ್ತು ಶಾಸನ ರಚನೆ ಸಚಿವಾಲಯ
ಅಧಿಸೂಚನೆ
ಸಂಖ್ಯೆ: ಸಂವ್ಯಶಾಇ 26 ಶಾಸನ 2022, ದಿನಾಂಕ: 12.01.2023

ಬೆಂಗಳೂರು ಮಹಾನಗರ ಭೂಸಾರಿಗೆ ಪ್ರಾಧಿಕಾರ ವಿಧೇಯಕ, 2022 ಇದಕ್ಕೆ 2023ರ ಜನವರಿ ತಿಂಗಳ 11ನೇ ದಿನಾಂಕದಂದು ರಾಜ್ಯಪಾಲರ ಒಪ್ಪಿಗೆ ದೊರೆತಿದ್ದು, ಸಾಮಾನ್ಯ ತಿಳುವಳಿಕೆಗಾಗಿ ಇದನ್ನು 2023 ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ:06 ಎಂಬುದಾಗಿ ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರದ ವಿಶೇಷ ರಾಜ್ಯಪತ್ರಿಕೆಯಲ್ಲಿ (ಭಾಗ IV) ಪ್ರಕಟಿಸಬೇಕೆಂದು ಆದೇಶಿಸಲಾಗಿದೆ.-

2023ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 06

(2023ರ ಜನವರಿ ತಿಂಗಳ 12ನೇ ದಿನಾಂಕದಂದು ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪತ್ರದ ವಿಶೇಷ ಸಂಚಿಕೆಯಲ್ಲಿ ಮೊದಲು ಪ್ರಕಟವಾಗಿದೆ)

ಬೆಂಗಳೂರು ಮಹಾನಗರ ಭೂಸಾರಿಗೆ ಪ್ರಾಧಿಕಾರ ಅಧಿನಿಯಮ, 2022

(2023ರ ಜನವರಿ ತಿಂಗಳ 11ನೇ ದಿನಾಂಕದಂದು ರಾಜ್ಯಪಾಲರಿಂದ ಅನುಮೋದನೆಯನ್ನು ಪಡೆಯಲಾಗಿದೆ)

ಬೆಂಗಳೂರು ನಗರದಲ್ಲಿ ನಗರ ಸಂಚಾರ ಪ್ರದೇಶಕ್ಕಾಗಿ ಮತ್ತು ನಗರ ಸಂಚಾರ ಪ್ರದೇಶದೊಳಗೆ ನಗರ ಸಂಚಾರದ ಅಭಿವೃದ್ಧಿ, ಕಾರ್ಯಾಚರಣೆ, ನಿರ್ವಹಣೆ, ಮೇಲ್ವಿಚಾರಣೆ, ಮೇಲ್ವಿಚಾರಣೆಯ ವಿನಿಯಮನಕ್ಕಾಗಿ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಭೂಸಾರಿಗೆ ಪ್ರಾಧಿಕಾರ ರಚನೆಗಾಗಿ ಉಪಬಂಧ ಕಲ್ಪಿಸುವ ಒಂದು ಅಧಿನಿಯಮ.

ಇದರಲ್ಲಿ ಇನ್ನುಮುಂದೆ ಕಂಡುಬರುವ ಉದ್ದೇಶಗಳಿಗಾಗಿ ಬೆಂಗಳೂರು ನಗರದಲ್ಲಿ ನಗರ ಸಂಚಾರ ಪ್ರದೇಶಕ್ಕಾಗಿ ಮತ್ತು ನಗರ ಸಂಚಾರ ಪ್ರದೇಶದೊಳಗೆ ನಗರ ಸಂಚಾರದ ಅಭಿವೃದ್ಧಿ, ಕಾರ್ಯಾಚರಣೆ, ನಿರ್ವಹಣೆ, ಮೇಲ್ವಿಚಾರಣೆ, ಮೇಲ್ವಿಚಾರಣೆಯ ವಿನಿಯಮನಕ್ಕಾಗಿ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಭೂಸಾರಿಗೆ ಪ್ರಾಧಿಕಾರ ರಚನೆಗೆ ಮತ್ತು ಅದಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ಅಥವಾ ಅದಕ್ಕೆ ಪ್ರಾಸಂಗಿಕವಾದ ವಿಷಯಗಳಿಗಾಗಿ ಉಪಬಂಧ ಕಲ್ಪಿಸುವುದು ಯುಕ್ತವಾಗಿರುವುದರಿಂದ;

ಬೆಂಗಳೂರು ಅಭಿವೃದ್ಧಿ ಪ್ರಾಧಿಕಾರ, ಬೆಂಗಳೂರು ಮಹಾನಗರ ವಲಯ ಅಭಿವೃದ್ಧಿ ಪ್ರಾಧಿಕಾರ, ಬೆಂಗಳೂರು ಸಂಚಾರ ಪೊಲೀಸ್, ಬೆಂಗಳೂರು ಮಹಾನಗರ ಸಾರಿಗೆ ನಿಗಮ, ಬ್ಯುಹೆತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ, ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ವೆ ನಿಗಮ ನಿಯಮಿತ ಮತ್ತು ಸಾರಿಗೆ ಇಲಾಖೆಯಂಥ ಬಹುವಿಧ ಸಂಸ್ಥೆಗಳು ಅಥವಾ ಏಜೆನ್ಸಿಗಳು ಬೆಂಗಳೂರು ನಗರ ಮತ್ತು ಅದರ ಸುತ್ತಮುತ್ತಲಿನ ಪ್ರದೇಶದಲ್ಲಿ ನಗರ ಸಂಚಾರಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ ಯೋಜನೆಗಳನ್ನು ರೂಪಿಸುವುದಕ್ಕೆ, ಅಭಿವೃದ್ಧಿಪಡಿಸುವುದಕ್ಕೆ, ಅನುಷ್ಠಾನಗೊಳಿಸುವುದಕ್ಕೆ ಮತ್ತು ಅವುಗಳ ನಿರ್ವಹಣಾ ಚಟುವಟಿಕೆಗಳಿಗೆ ಜವಾಬ್ದಾರಿಯಾಗಿರುವುದರಿಂದ ಮತ್ತು ಮೇಲ್ಕಂಡ ಪ್ರತಿಯೊಂದು ಸಂಸ್ಥೆಗಳು ಮತ್ತು ಇಲಾಖೆಗಳು ಬೇರೆಬೇರೆ ಶಾಸನಗಳ ಅಡಿಯಲ್ಲಿ ಒಂದು ನಿರ್ದಿಷ್ಟ ಕಾರ್ಯಚೌಕಟ್ಟಿನೊಳಗೆ ನಗರ ಸಂಚಾರಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ವಿಷಯಗಳ ಬಗ್ಗೆ, ವ್ಯವಹರಿಸಲು ಅಧಿಕಾರ ಹೊಂದಿರುವುದರಿಂದ;

(೧)

To ensure holistic and **integrated planning** of urban transport, working as an independent legal entity with **technical expertise and financial autonomy**.

DULT is the **Secretariat to BMLTA**.

BMLTA fund will be set up for implementation of this Act.

Current Status :

- The BMLTA Act was approved by the Government on 12.01.2023.
- Proposals for the constitution of BMLTA and declaration of BMLTA jurisdiction are submitted to GoK.
- Preparations of rules and regulations are underway.

FACILITATING POLICY FRAMEWORK

Active Mobility Bill

To protect the **rights of pedestrians and cyclists** of all ages, abilities and gender to safe, accessible, and connected pedestrian and cycling networks in urban areas of the State, to promote sustainable urban mobility and build healthy communities.

16-12-2022

The Karnataka Active Mobility Bill, 2022

Preamble/Statement of Objects and Reasons

A Bill to provide for the rights of pedestrians and cyclists of all ages, abilities and genders to safe, accessible, and connected pedestrian and cycling networks in urban areas of the State, with a view to promote sustainable urban mobility and build healthy communities;

Whereas walking and cycling not only contribute to better health of an individual but also help in improving societal well-being, and improvements to pedestrian and cycling infrastructure ensure equity and inclusive development, it is expedient to provide for the design and development of streets and public places keeping in view the needs and requirements of all road users and transition to sustainable urban areas where every road user is conscious and respectful of the rights of other road users, and for the matters connected therewith or incidental thereto for the purposes hereinafter appearing;

Be it enacted by the Karnataka State Legislature in the seventy third year of the Republic of India, as follows: -



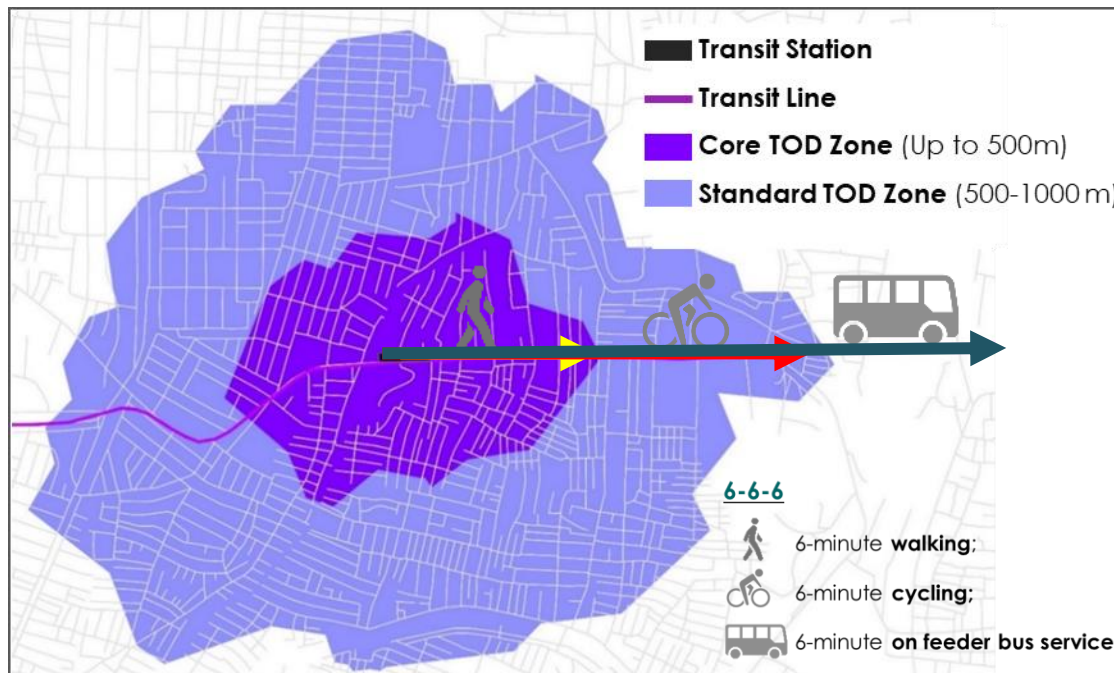
Current Status : Awaiting approval of the Government.

FACILITATING POLICY FRAMEWORK

TOD Policy-Transit Oriented Development for Bengaluru

TOD to enable **more people** to live, work, or play in **proximity** to transit stations

MMI for **seamless transfers** from one mode to another and first/last mile connectivity to encourage increased public transport use



Objective 1: high mode share of public transport



Objective 2: built environment conducive for NMT



Objective 3: mixed-land use



Objective 4: inclusivity for all economic classes, gender, age, and abilities



Objective 5: placemaking and sustainable practices



Objective 6: Build enabling framework to deliver TOD

Current Status:

Approved by the Government on 17.11.2022

FACILITATING POLICY FRAMEWORK

Travel Demand Management through Parking Policy 2.0

Streamlining Commercial On-street Parking

- **Promoting NMT**
- Prioritizing pick-up/drop-off, loading/un-loading
- Prevent long term on-street parking
- **Restricted** close to junctions, pedestrian crossings & high traffic roads
- **Prohibition** around transit nodes and MLCP's.

Parking regulations for TOD influence zone

- Reduced building parking norms in TOD Zones
- Multi Sectoral Industrial parks
 - a. Provision of bus-stops within the premises
 - b. Facilitate common parking facilities

Parking Revenue Utilization



PARKING POLICY 2.0

FOR BENGALURU

Final – December, 2020



Directorate of Urban Land Transport
Urban Development Department, Government of Karnataka

2. Plans focused on safe and accessible infrastructure.

PLANS FOCUSED ON SAFE AND ACCESSIBLE INFRASTRUCTURE

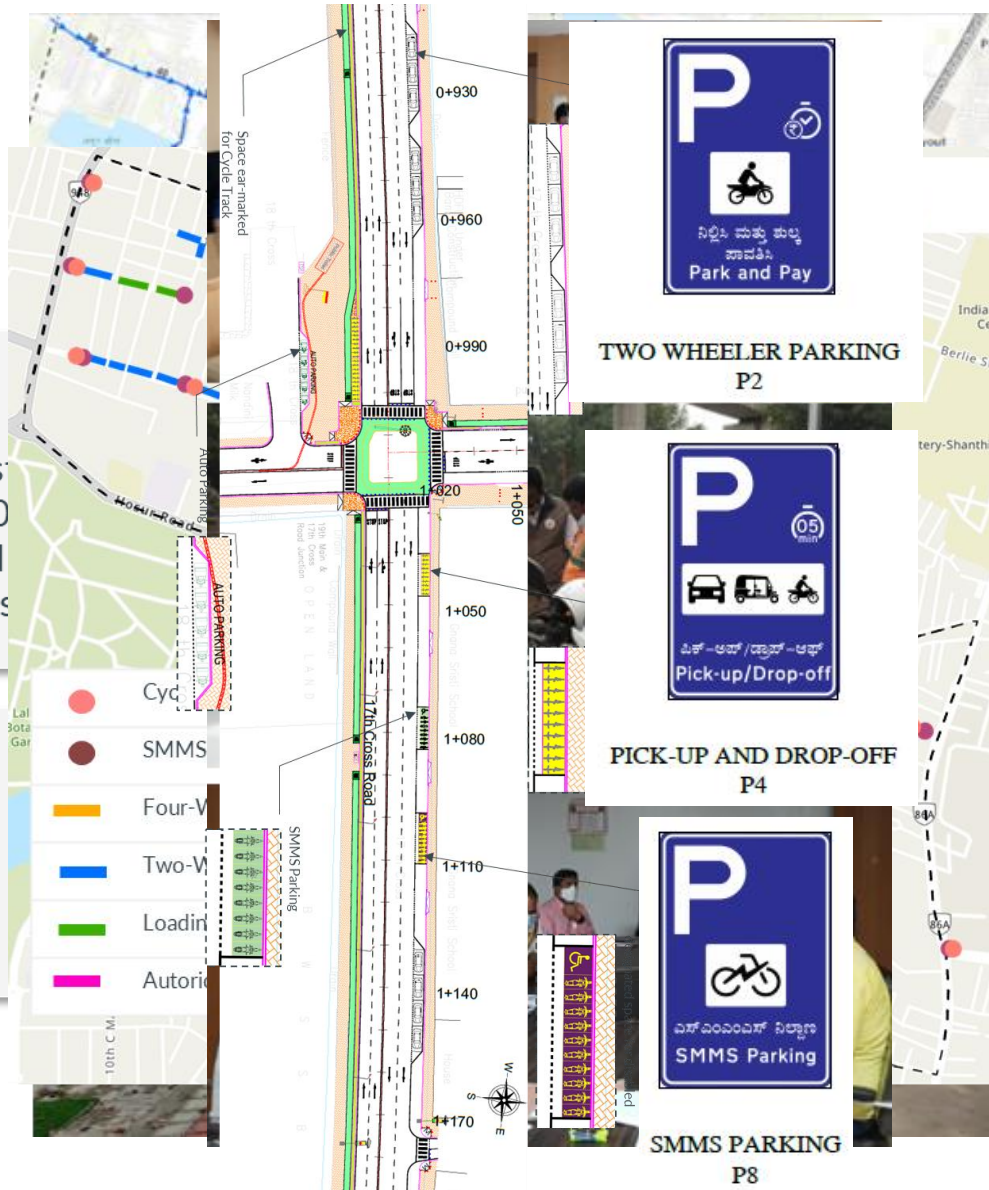
Area Parking Plans

1. Planning Principles

2. D

Cycle/ SMMS s
every 200-250
major roads and
junctions

3. Setting Design
Standards



4. Parking Allocation
Plans

spots for people
bility (PWD) near
junctions

6. Detailed Project
Report

PLANS FOCUSED ON SAFE AND ACCESSIBLE INFRASTRUCTURE

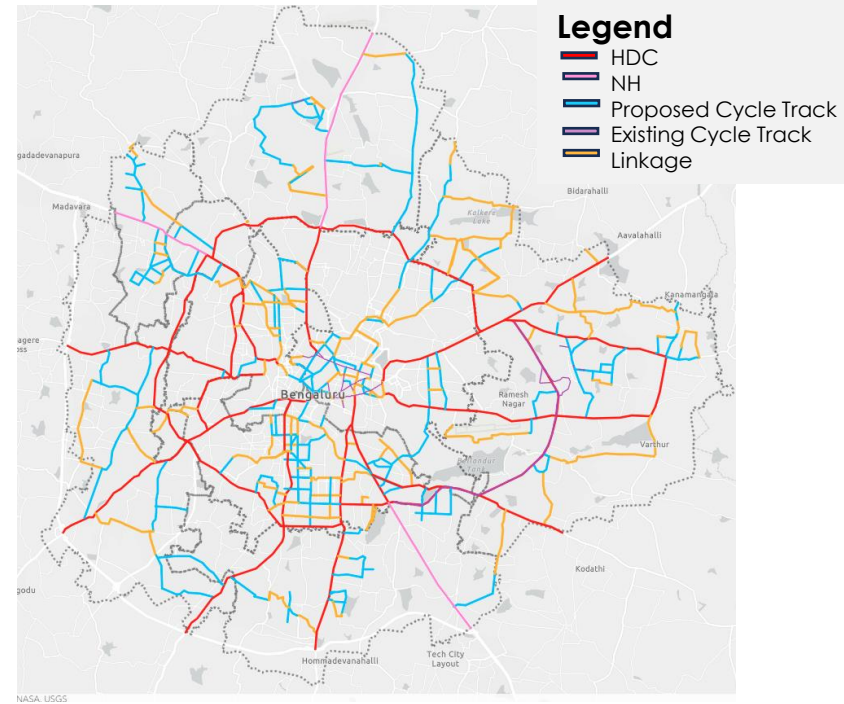
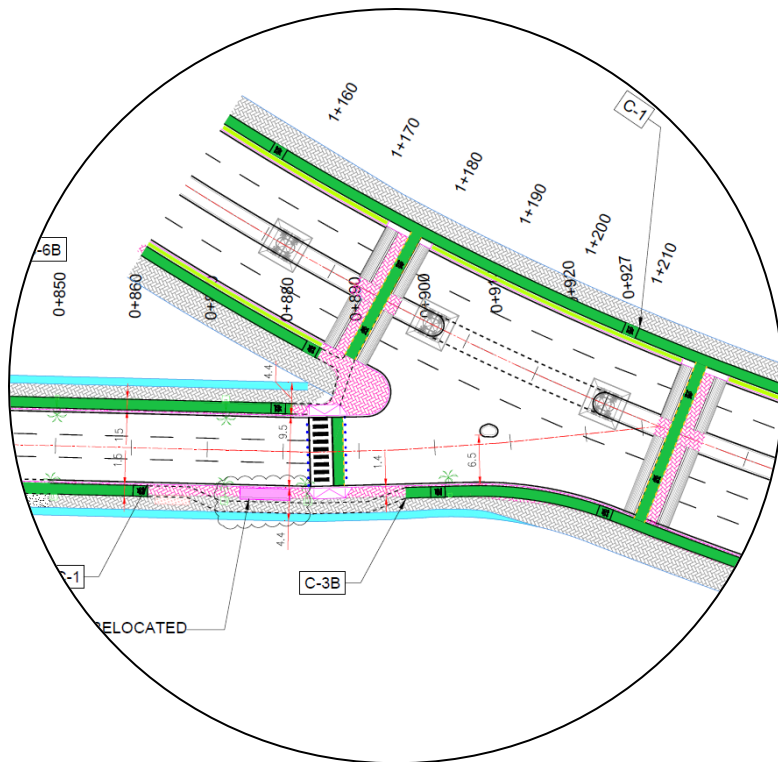
Cycling Initiatives

Cycling Network Plans

The CMP targets - **600 KM of cycle tracks developed by 2035.**

Designs also include:

- Junction designs to facilitate safe crossings for cyclists
- Supporting elements for **cycling like ramps, bollards, lane and floor marking, signage, cycling parking**



PLANS FOCUSED ON SAFE AND ACCESSIBLE INFRASTRUCTURE

Cycling Initiatives



Cycle Stands at Metro Stations & TTM

The Directorate of Urban Land Transport (DULT) has set out the installation of bicycle docking points/stations at:

10 Metro Stations

[Baiyappanahalli, Mahakavi Kuvempu Road, Rajajinagar, Mahalakshmi, Peenya, Nagasandra, Jayanagar, Yelachenahalli, Konankunte Cross and Swami Vivekananda Road.]

** Provisions for only foldable cycles on the metro.*

Status- Completed

10 TTM [Bus Terminals]

Status- Ongoing

FACILITATING POLICY FRAMEWORK

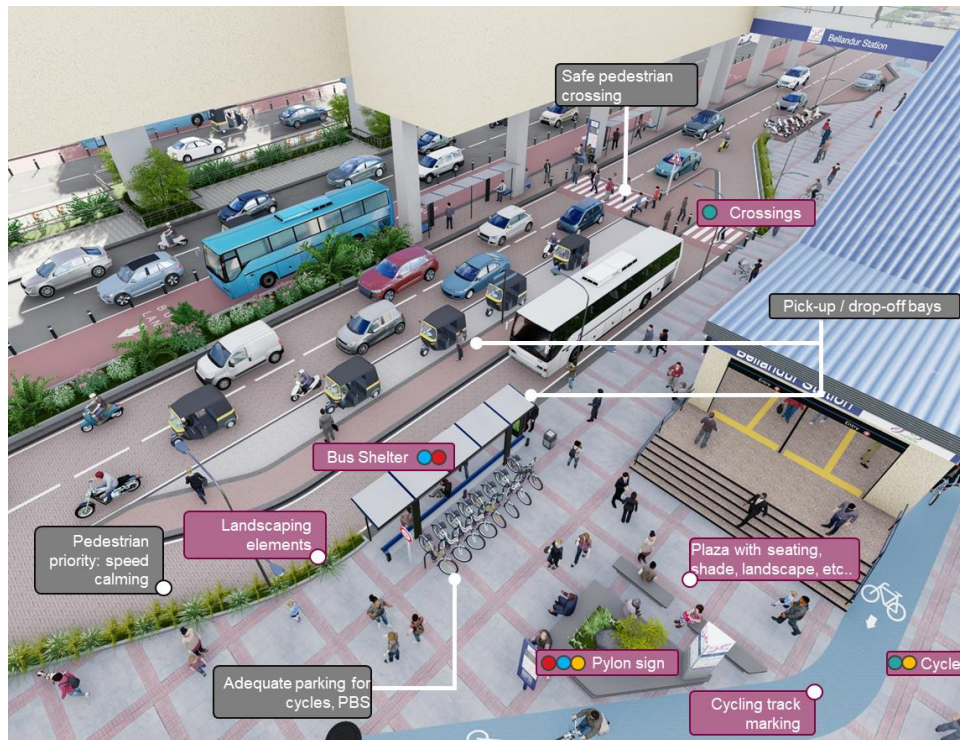
TOD Policy-Transit Oriented Development for Bengaluru

BMRCL

ADB providing Technical Assistance to GoK through DULT and BMRCL for **planning for TOD & MMI (2A & 2B)**

SRS

TOD plans for corridor 2 (Baiyyapanahalli to Chikkabanavara) is being prepared by DULT.



PLANS FOCUSED ON SAFE AND ACCESSIBLE INFRASTRUCTURE

Redevelopment of Gandhi Bazaar

CIRCULATION

PEDESTRIANISED ZONE

PARKING

Ramakrishna
Ashram Circle

Tagore Park

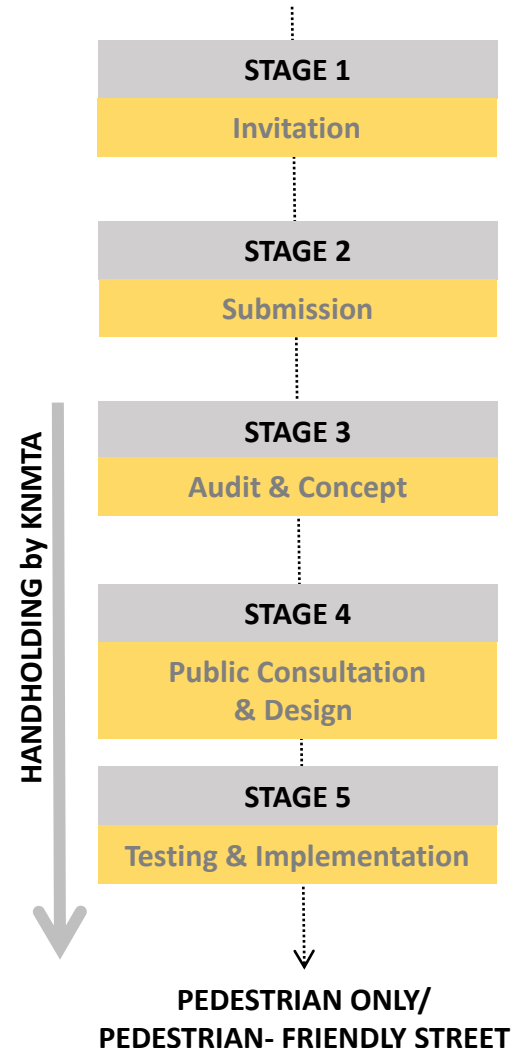


- 1 ಮಾರಾಟ ಸಿಯೋಲ್ಡ್
Vending kiosk
- 2 ಅಂಗಡಿ ಮುಂಭಾಗ
Shop frontage
- 3 ತುರ್ತು ವಾಹನವಿಧಿ
Emergency driveway
- 4 ಪಾದಚಾರಿ ಮಾರ್ಗ
Pedestrian walkway
- 5 ಲ್ಯಾಂಡ್‌ಸ್ಕೇಪ್ ಟ್ರೀ ಪಿಟ್
Landscaped tree pit
- 6 ಪಾದಚಾರಿ ಬೀದಿ ದೀಪ
Pedestrian street light

PLANS FOCUSED ON SAFE AND ACCESSIBLE INFRASTRUCTURE

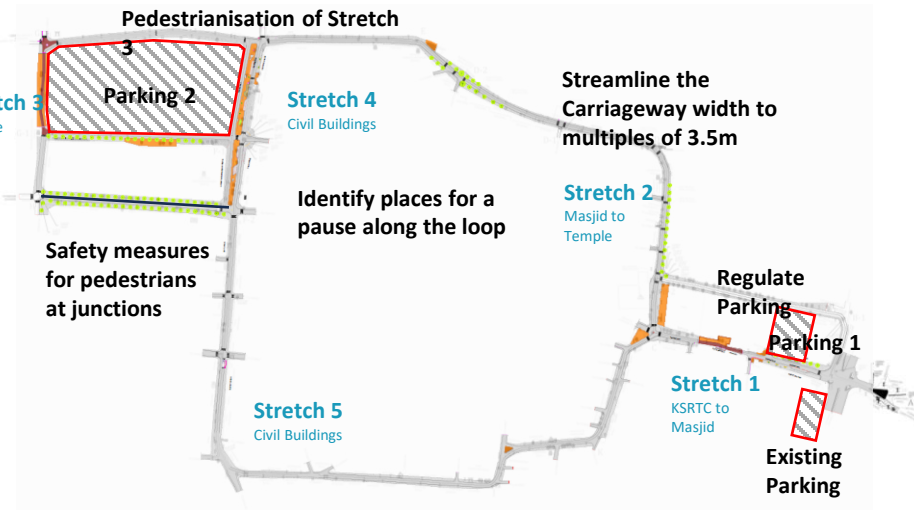
Pro-active Streets – pedestrian and pedestrian-friendly streets in Tier II & III cities

- Initiative to **popularize cycling and walking** as a mode for short urban commute.
- **TIER 2 & TIER 3 cities** in Karnataka to apply for design & implementation support to improve the walkability of streets.
- Cities were invited to apply for technical support with design and financial support to implement the design.
- Cities applied for two categories:
 - Pedestrian Friendly
 - Pedestrian Only
- **Proactive Streets 1.0** : 4 cities applied namely Manipal, Mangaluru, Hassan, Davanagere applied.
DPRs for Mangaluru, Manipal have been completed.
- **Proactive Streets 2.0** :6 cities namely Hassan, Dandeli and Puttur Hoskote, Mandya & Srirangapatnam applied.
DPRs for Srirangapatnam and Mandya have been completed.

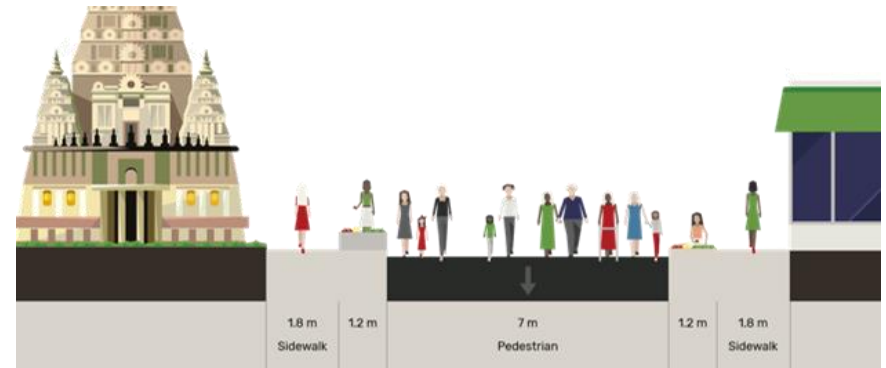


PLANS FOCUSED ON SAFE AND ACCESSIBLE INFRASTRUCTURE

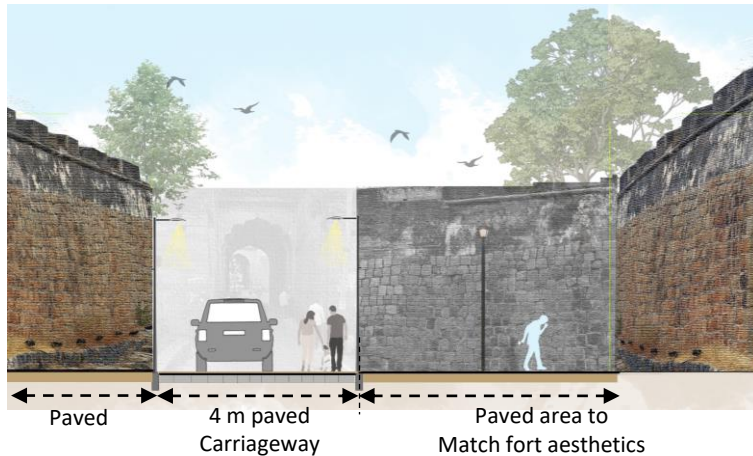
Designing pedestrian-friendly street in Srirangapatana, Pro-active Streets



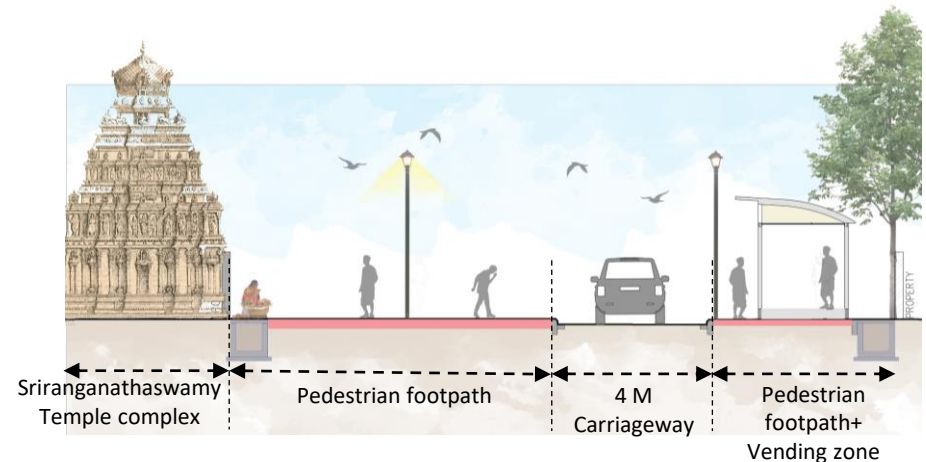
Concept Plan



Existing Section at Temple (Stretch 3)



Section for Stretch 1



Section for Stretch 3

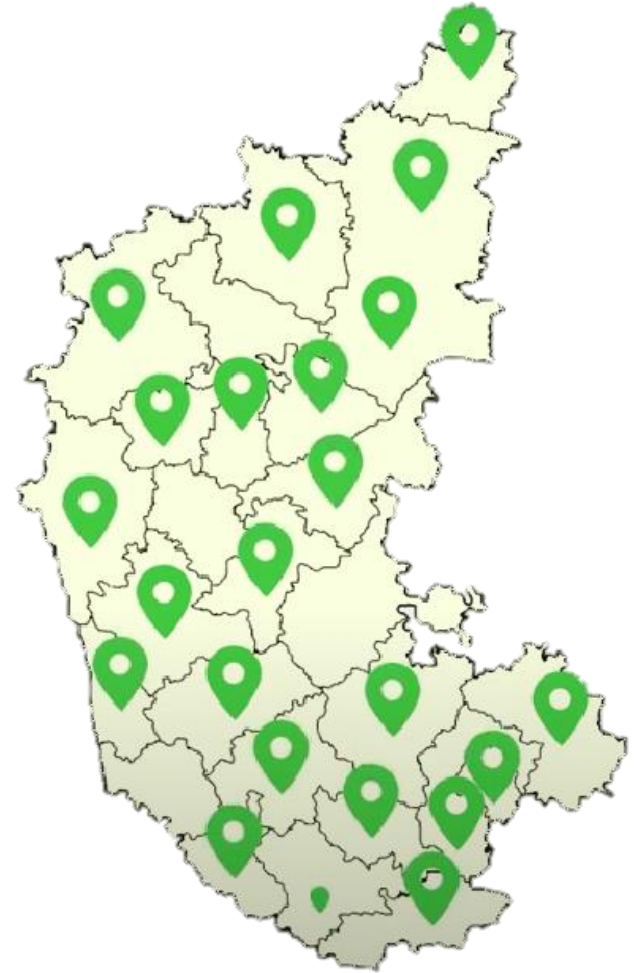
PLANS FOCUSED ON SAFE AND ACCESSIBLE INFRASTRUCTURE

SUTF- State Urban Transport Fund

The Government of Karnataka has set up the State Urban Transport Fund in 2010 to support financial assistance to projects under **PT, NMT, Capacity Development, Innovation, etc.**

The source:

- **Budget allocation**
- **1%** of Cess on motor vehicle tax
- **2%** of Cess on property tax



43 City Bus Services

46 Terminals

13 NMT Projects

6 Innovative Projects

27 Depot & Tyre retreading plants

3. Proactive Engagement with community

PROACTIVE ENGAGEMENT WITH COMMUNITY

Cycle Day

Initiated Cycle Day in Bengaluru in the year 2013

SPREAD

- 41 Community Partners
- 40 Neighbourhoods covered
- 500+ Cycle Day across 60+ community partners



IMPACT

■ Increase in PT Share

20,000 Trips were made on the bus on the day (otherwise account for **5000 cars** on the road)

■ Drop in pollution levels:

Karnataka State Pollution Control Board recorded **30.6% decrease in particulate matter** and **11.5% dip in ambient noise quality** from the previous day



No honking, only tinkling

Bangaloreans Cutting Across Age Groups Throng Agara Lake For A Joyride



HOW DID YOU COME FOR THE OPEN STREETS EVENT?



26%



30%



44%



PROACTIVE ENGAGEMENT WITH COMMUNITY

Cycle Day Impacts



Cycle Stands and Cycle Track



ORR – Pop Up Cycle lane (17 Kms)



Walk and Cycle to School Program



Bangalore Bicycling School

PROACTIVE ENGAGEMENT WITH COMMUNITY

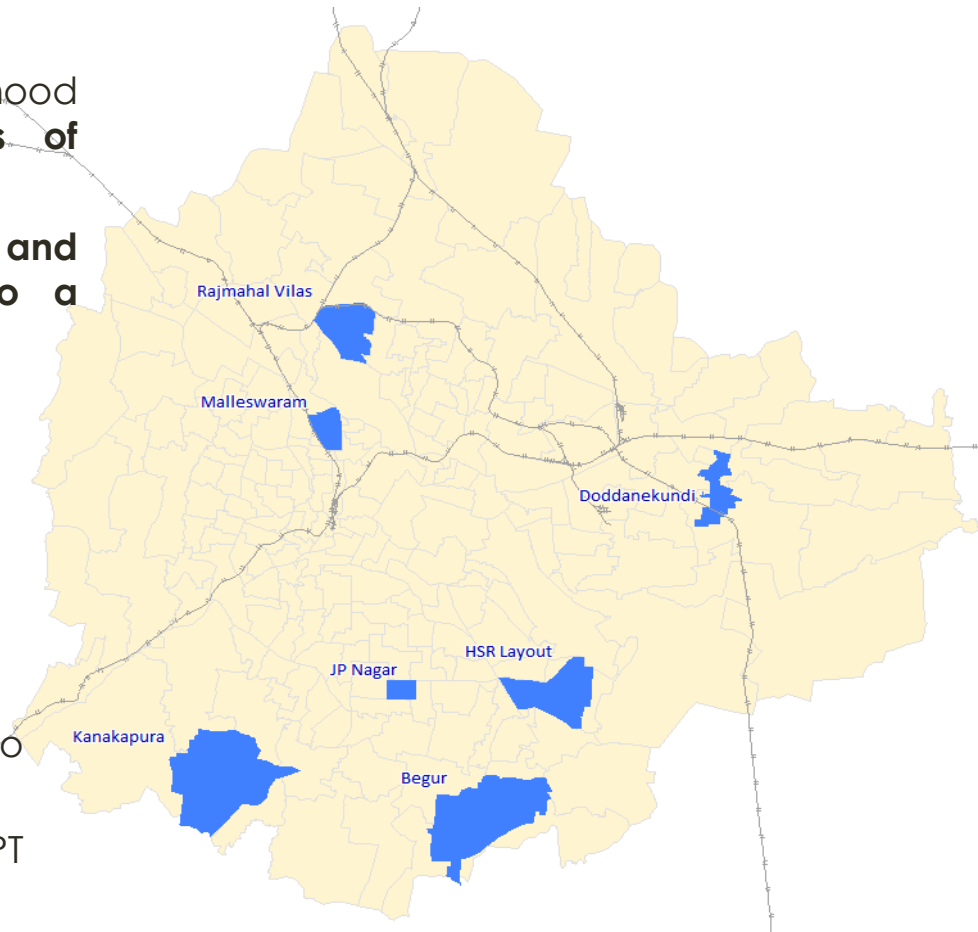
SuMA

Objectives of SuMA

- To engage communities at the neighbourhood level to **spread awareness on benefits of sustainable modes** of transport.
- To **support the community in formulating and implementing proposals to transform into a sustainable neighbourhood.**

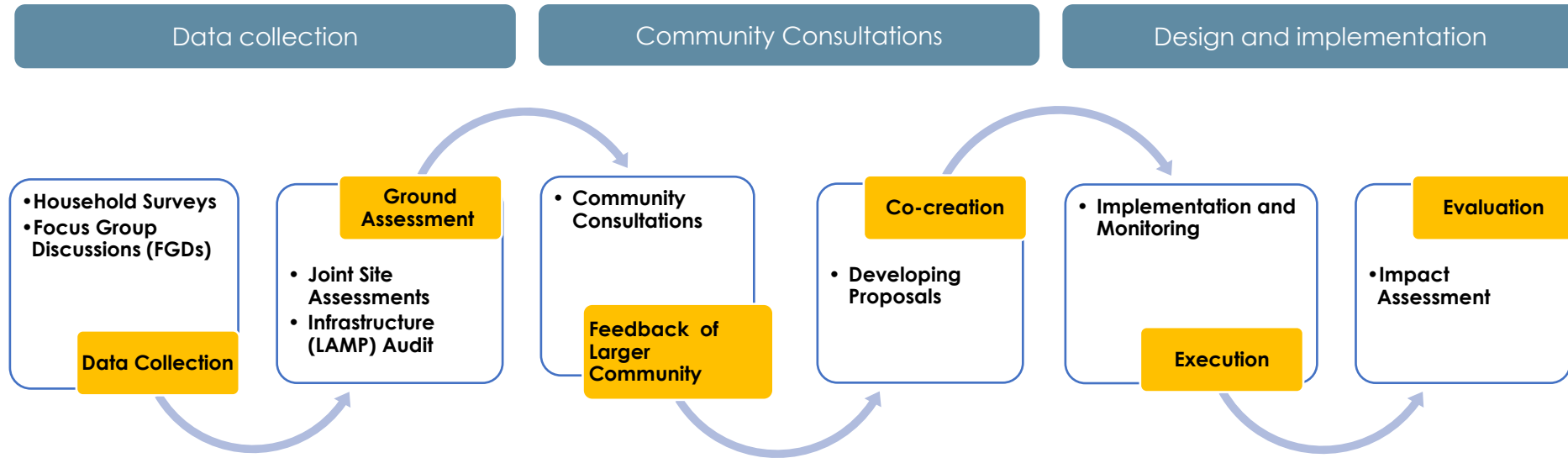
Expected Outcomes

- **Capacity building** of neighbourhoods to advocate for sustainable mobility practices.
- More neighbourhoods with better NMT and PT infrastructure.
- **Better sense of ownership for NMT and PT assets.**

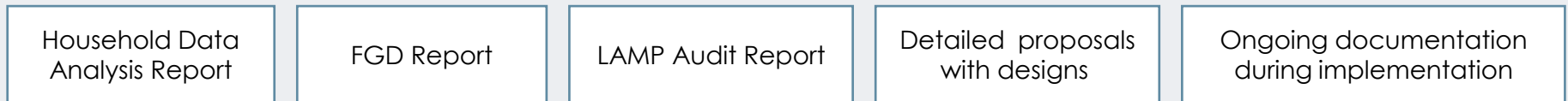


PROACTIVE ENGAGEMENT WITH COMMUNITY

Major Activities of SuMA



Key Documentations /Outputs



FGD with Lower Income Group



FGD with Children



Tag Along Survey



Community Consultation



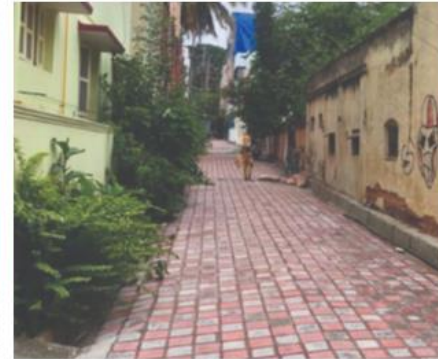
Community Engagement (Sutta Mutta)

PROACTIVE ENGAGEMENT WITH COMMUNITY

SuMA- Impacts



Installation of safe cycling infrastructure - segregated cycling lane



Activation of Defunct Conservancy Lane



Installation of Bicycle Counter



Installing Bollards at Junction for smooth turning of Buses

PROACTIVE ENGAGEMENT WITH COMMUNITY

Tactical Interventions



STEP 1

Study the site conditions, issues and challenges.



STEP 2

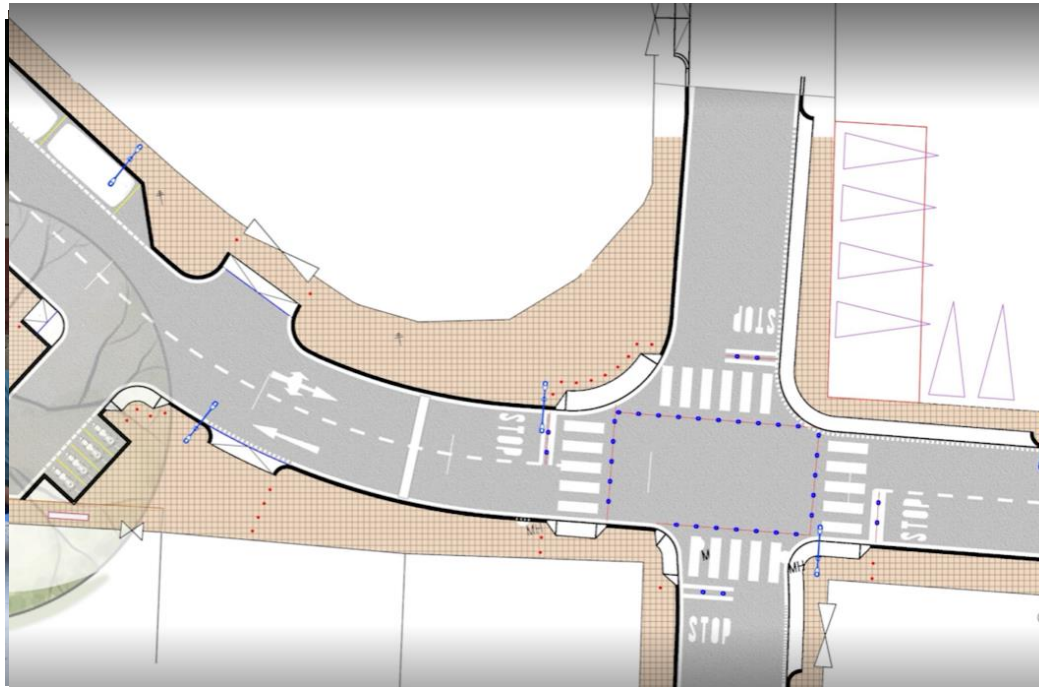
Develop Conceptual plans.



STEP 3

Stakeholder consultations to get buy-in of all.

“ TEST, LEARN, MODIFY & IMPLEMENT.”



STEP 4

Implement tactical intervention along with community.



STEP 5

Gather data through observation, measurements, surveys etc.



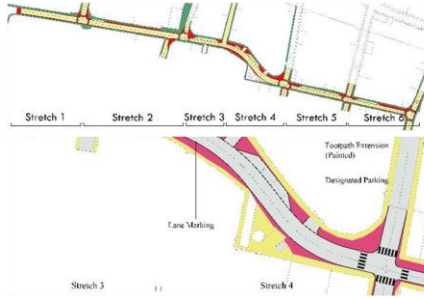
STEP 6

Gauge impact, issues etc. and based on insights modify.

PROACTIVE ENGAGEMENT WITH COMMUNITY

Tactical Interventions

SLOW STREET – ALEXANDRIA STREET



Barricades



Cones



Ropes



Floor Paint



Potted Plants



Caution Tape

PEDESTRIAN PRIORITY STREET – SIDDHAIHAH ROAD



Barricades



Cones



Ropes



Floor Paint



Potted Plants



Wooden Pallets
To create seating



Upcycled Cloth
To create an installation



Yarn
For crocheting on the grills



5. EMPHASIS ON RESEARCH & INNOVATION

EMPHASIS ON RESEARCH & INNOVATION

Research & Innovation

Clean Air Initiative

Bengaluru's first TESTBED



INNOVATIVE
CLEAN AIR SOLUTIONS



CONCEPT OF PEDESTRIANIZATION
OF A BUSY COMMERCIAL STREET

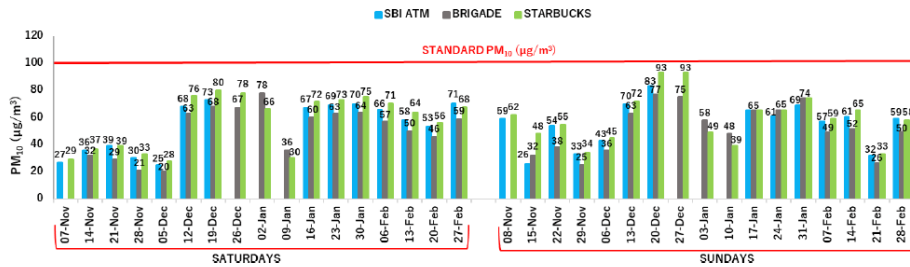


Figure I: Comparison of Daily Average of PM₁₀ concentration for Weekends of Nov-Dec-Jan-Feb for all Three Sensors

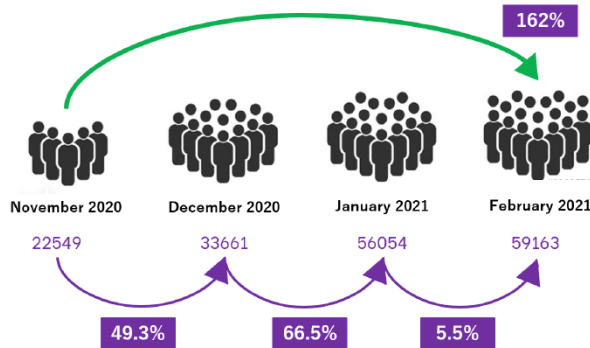


Figure IX: Comparison of Metro Users on Weekends of Four Months

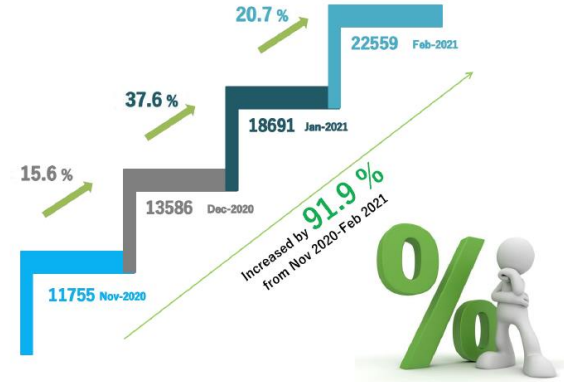


Figure V: Average Daily Pedestrian Footfall from November 2020 - February 2021

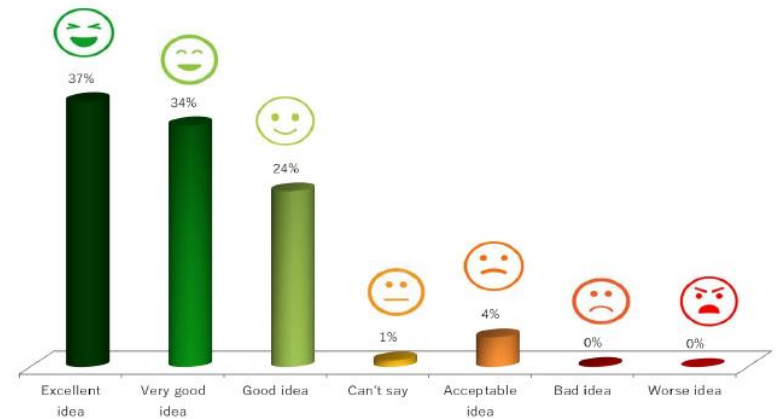


Figure XX: Percentage Share of Visitors Opinion on Pedestrianization of Urban Street

EMPHASIS ON RESEARCH & INNOVATION

Research & Innovation

EV Test Bed

- Evaluate the introduction of electric vehicles in the SWM fleet, through pre-defined key performance indicators (KPI).
- Use data to extrapolate the impact of the induction of electric vehicles on the operation costs and service levels, to help in transfer to EV fleet.



Increase the height & Design of the box



An indicator for overloading



A mike to announce



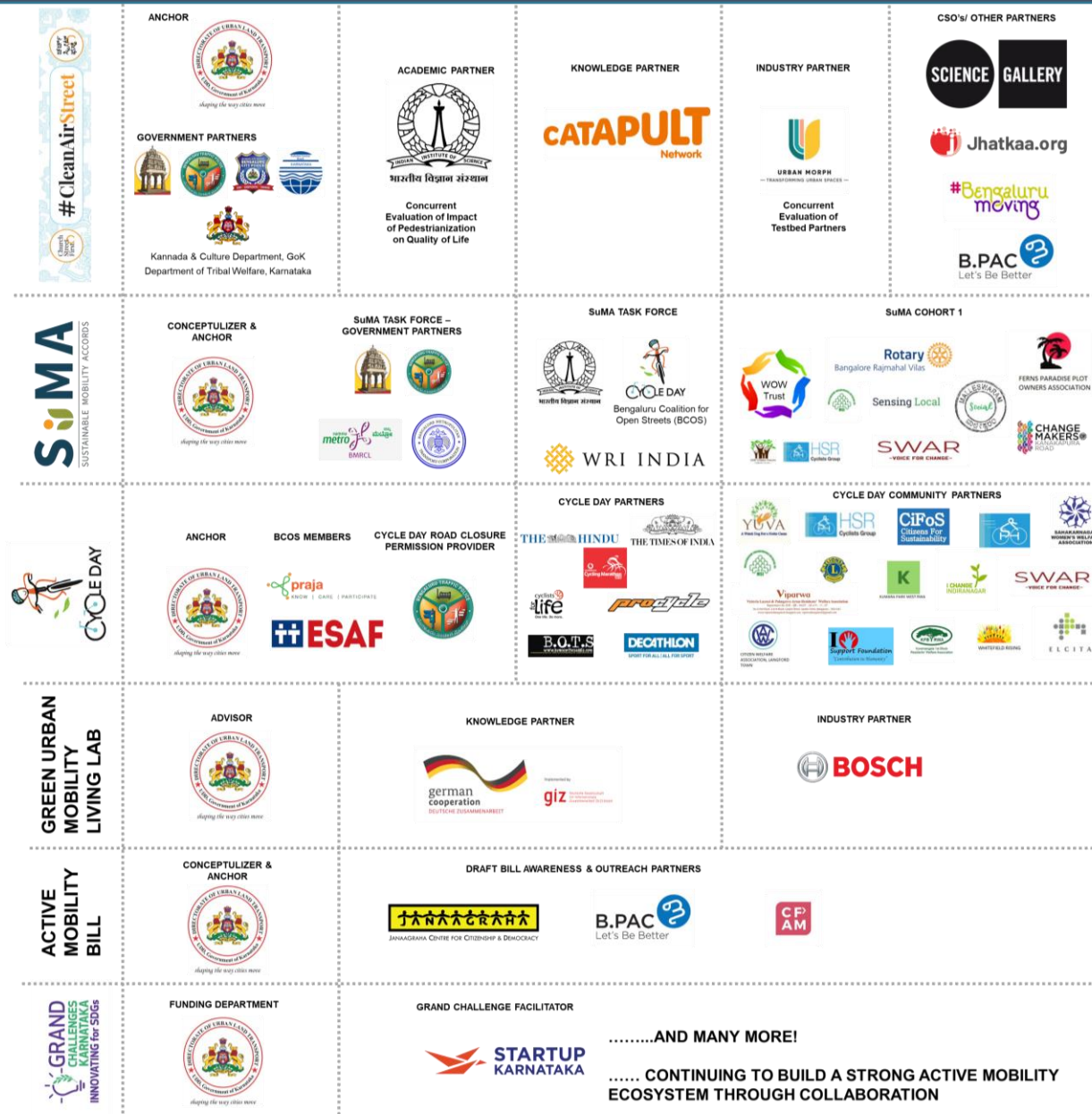
EVs to be fitted with GPS to enable tracking of the SWM vehicle



Parameter	EV	Diesel
Cost of fuel for the vehicles (Duration: 3 months)	2566 INR	74,765 INR
Average Noise level (measured periodically) (including ambient sound)	50.6 Hz	67 Hz
Average Exhaust Emissions (measured periodically)	0	13.5 HSU

5. Building partnerships

BUILDING PARTNERSHIPS



6. Branding and communication

BRANDING AND COMMUNICATION

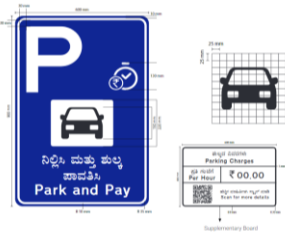
URBAN DESIGN GUIDELINES :TOD HUBLI DHARWAD

- Guidelines for the Preparation of ToD
- Built-form Guidelines
- Street Design Guidelines
- Public Realm Guidelines



SIGNAGE MANUAL

PARKING SIGNAGE MANUAL



KARNATAKA'S CYCLING BRAND



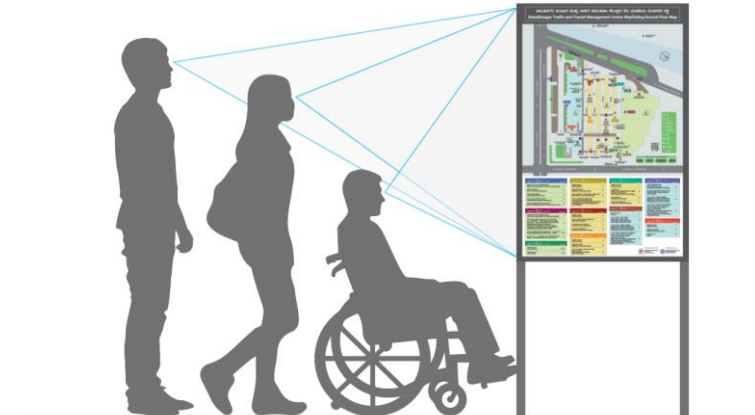
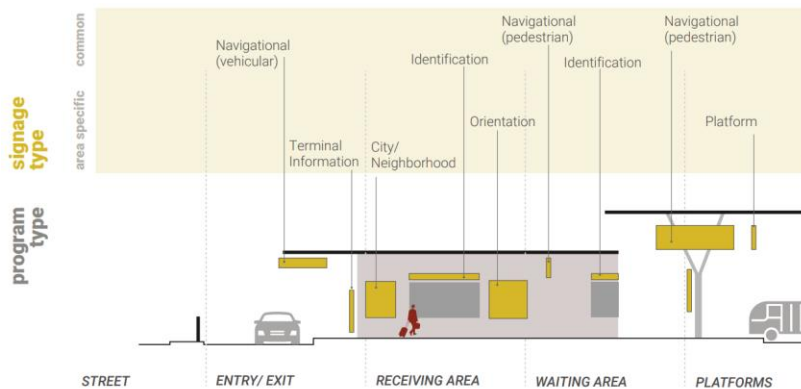
BUS PRIORITY LANE MANUAL



Bus Priority Lane

Road name or the name given to the system, City Name

BUS TERMINAL SIGNAGE GUIDELINES



AWARDS AND RECOGNITIONS



Commendation Award in Urban Transport-
"Implementation of the Best Urban Transport Project" at
the 14th Urban Mobility India Conference 2021.

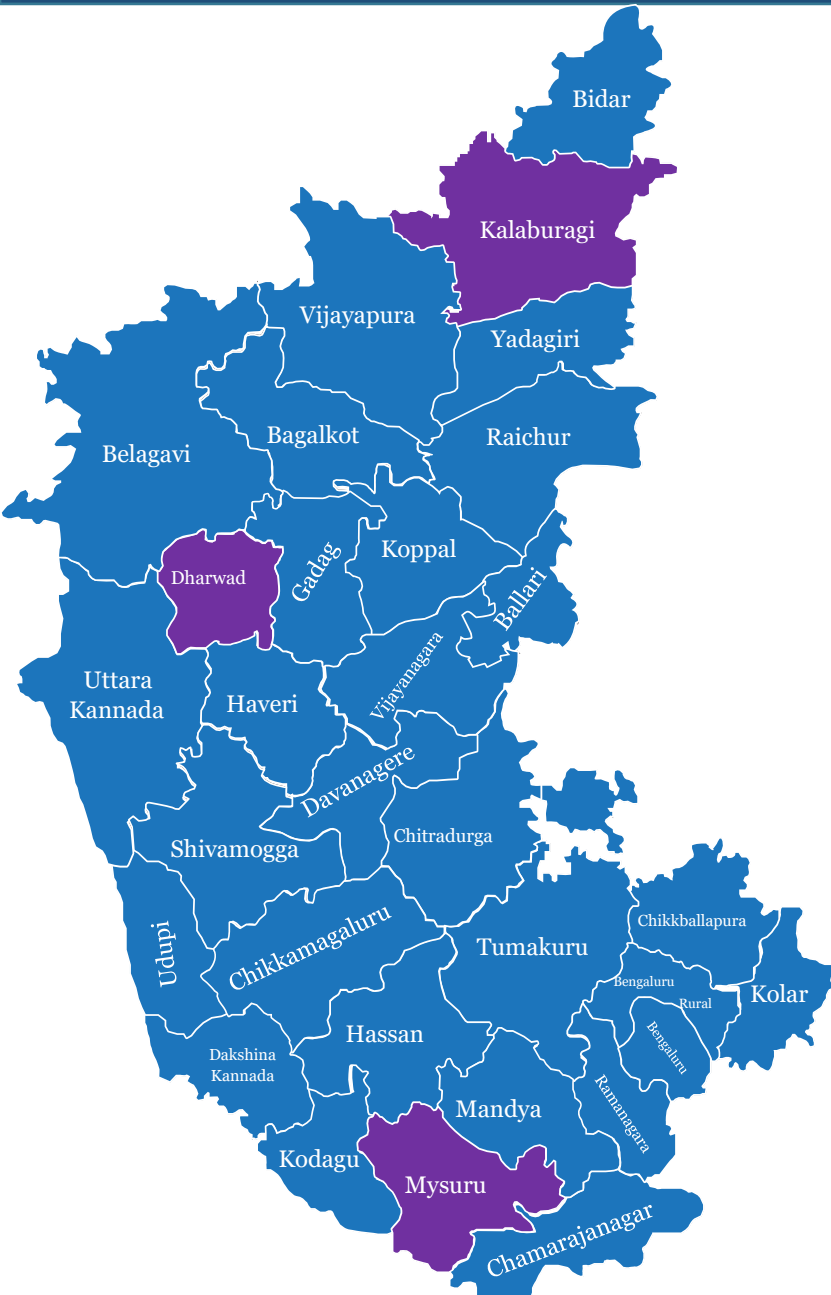


Special recognition for enabling and demonstrating
collaborative mobility solutions towards improving the
quality of life for the citizens in Bengaluru by Volvo Group
India, 2021.

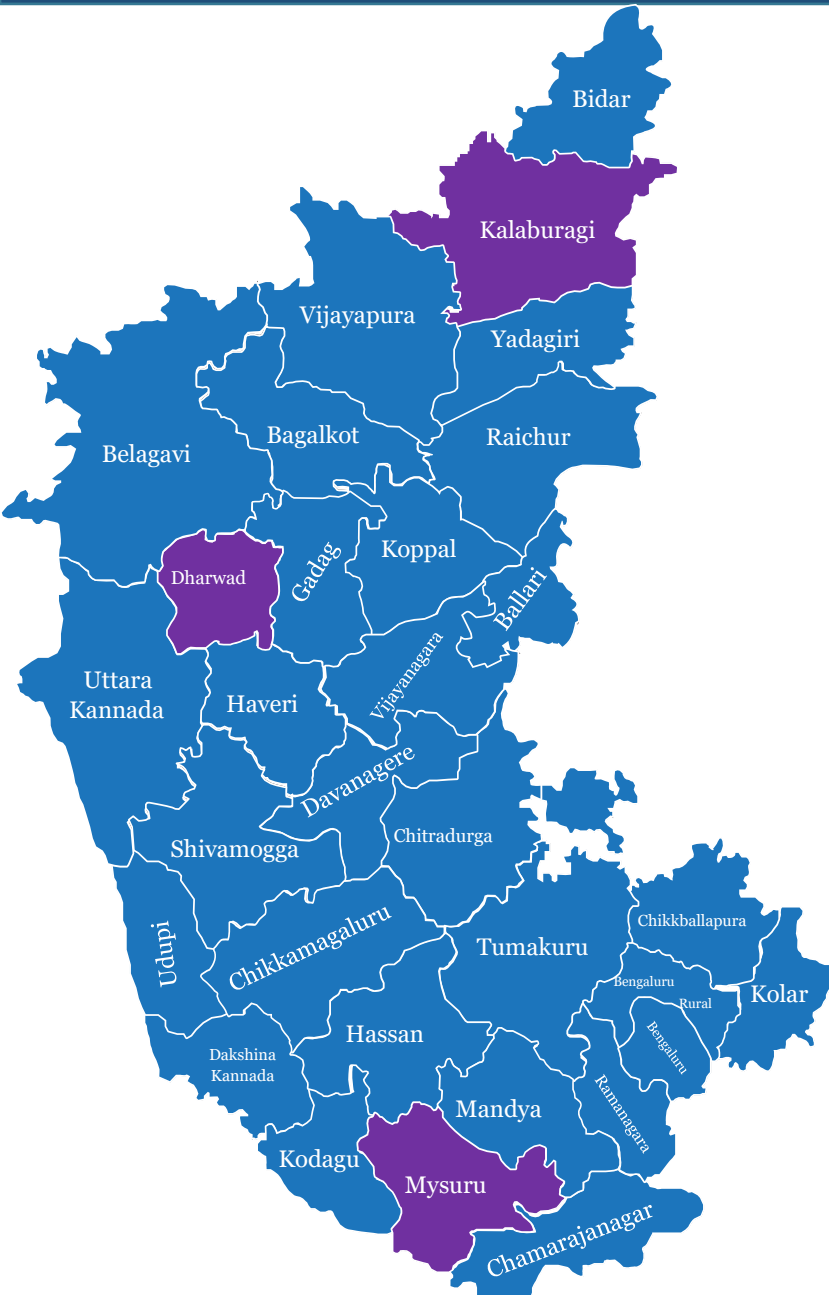


"Most Admired City Planning Body for Urban Development"
by Urban Infra Business Summit and Awards 2022.

DTEE Cities



DTEE Cities



7th Largest city in Karnataka

192 sq km Area

5.32 Lakh Population (2011)

25% NMT, 11% PT, 20% IPT, 44% private vehicles Modal Share

Bus Priority Lane and Bicycle Infrastructure

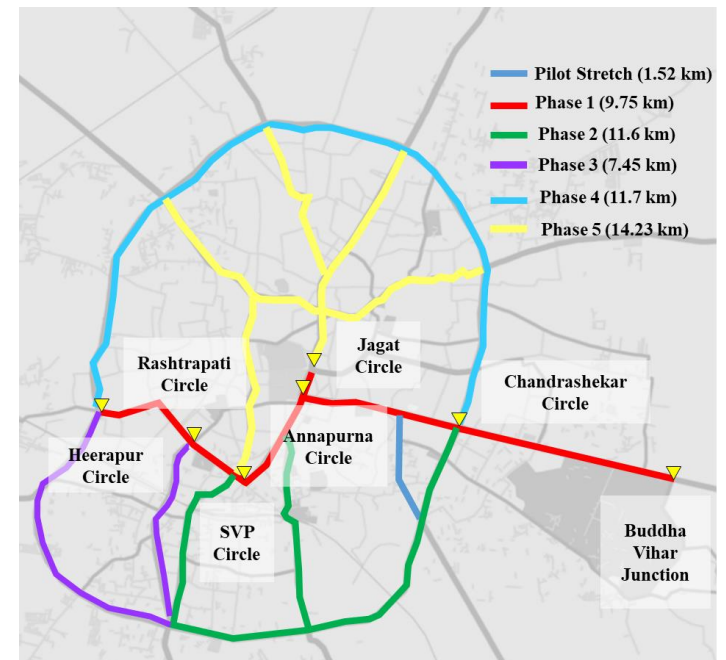
CYCLES 4 CHANGE CHALLENGE (GoI)



CITIES ON THE MOVE – WHERE THERE IS A BUS, THERE IS A WAY CHALLENGE (GoK)

KKRTC and KMP

Bus Priority Lane along with Bicycle infrastructure [Integrated Approach]



Project cost: Rs 101.25 crore for 54.73 Km

Kalaburagi



Kalaburgi City Corporation
@KalaburgiCorp

We are proud to be participating in the [#IndiaCycles4Change](#) challenge by [@MoHUA_India](#) in association with [@DULTBangalore](#). We look forward for Kalaburgi to be a bicycle friendly city! [@CMofKarnataka](#) [@csogok](#)



Kalaburgi City Corporation
@KalaburgiCorp

Inviting all Kalaburgians to participate in this challenge

[DULT, Bengaluru](#) @DULTBangalore · Aug 8
1/3

#Hashtag Challenge

9 Cities in Karnataka are working towards making their cities cycling-friendly in the next year to ensure that all of its residents can breathe clean air and also remain healthy while keeping the environment healthy.

[Show this thread](#)





Observe

[Look at the map](#) to see if your area falls in and around the first identified Cycling District. Observe points of interest in the different layers across work, school, rejuvenate, last mile for transit, local neighborhood shopping activities

Mark

Use your favourite tracking tool like [Strava](#), [Mapmyride](#) or draw your route using many tools like [GPS visualiser](#), [Mapunity Draw](#), or [Google Map](#). Mark any points of interest that are not already marked on the map where cyclists might want to have a pit stop.

Upload

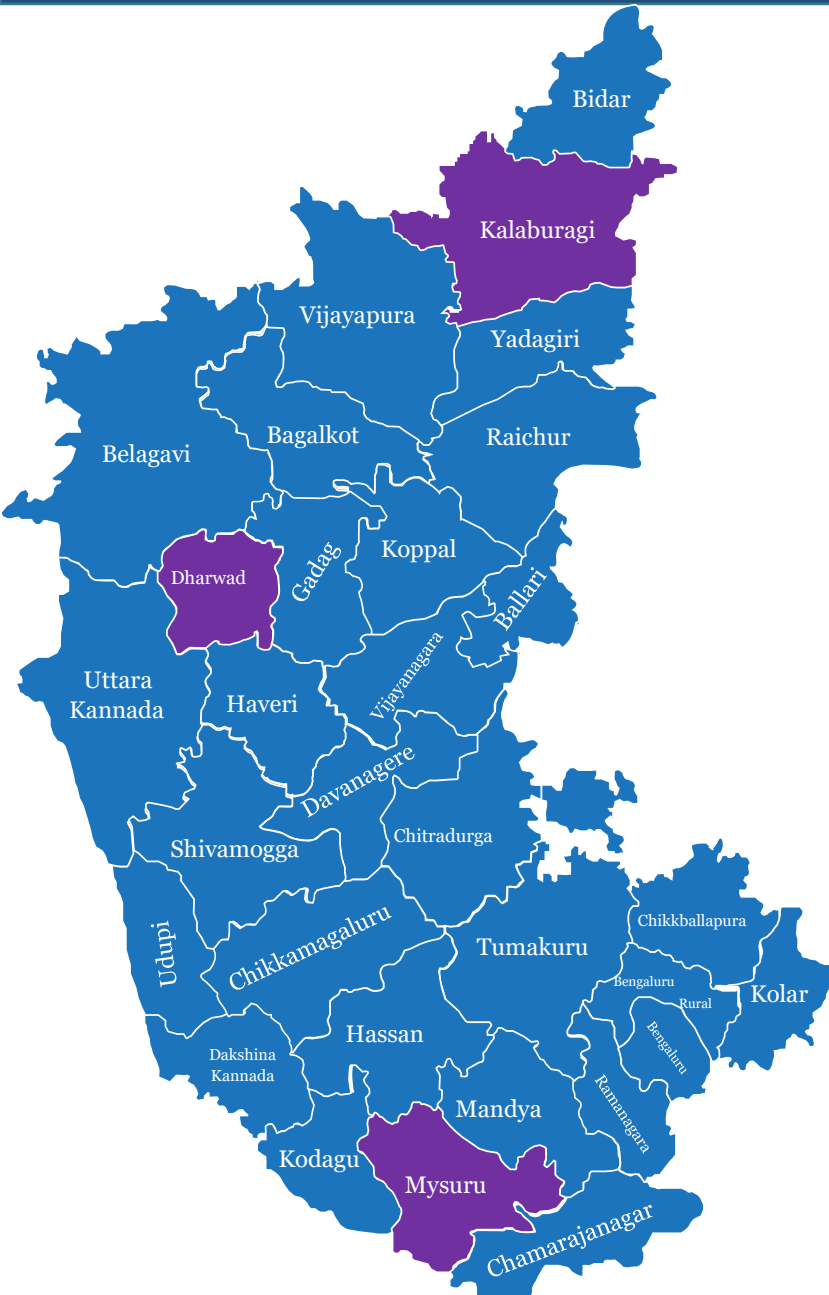
If you have used a marking tool export the routes & points as KML or if you have tracked your ride, export the trips as a GPX file and [send it to us](#). If you cannot do any of the above do not worry, just draw up your route on a paper, scan it and [upload it](#) instead.

“Centre for Urban Mobility Planning, Design and Action Research”

has been set up under DULT with headquarters in Kalaburgi In 2022 to accelerate initiatives that promote and induce shift in modal split in favour of

PT and NMT in the Kalyana Karnataka Region

DTEE Cities-Mysuru



2nd Largest city in Karnataka

286.05 sqkm Area of Mysuru

9.2 Lakh Population (2011)

43% NMT, 18% PT, 12% IPT, 37% private vehicles Modal Share

Mysuru is the **first** Indian city to implement a city-wide PBS system in India.

India's first cycle-sharing scheme pedals on in Mysuru

'Trin Trin' Aims At Reducing Carbon Footprint

Team News Network

Mysuru: India's first public bicycle sharing (PBS) system, Trin Trin, was launched here on Sunday by chief minister Siddaramaiah, bringing Mysuru on the list of select global cities which already have bicycles as a commuting option.

A total of 450 bicycles (40 regular and 10 with gears) can be borrowed for a nominal fee from 10 automated docking stations set up at major tourist destinations, universities and offices. The users have to obtain a smart card which they can swipe and take a bicycle from a docking station, and return it at any other station, where a user fee would be deducted from the smart card.

The initiative has been jointly funded by the World Bank, Global Environmental Fund and state directorate of urban land transport. While Mysuru City Corporation owns the bicycles, the project is being operated by Green Wheel Kala, a city-based manufacturer of eco-friendly bicycles. While the city's cynical cynics had a joyride, more people, particularly foreigners, are expected to opt for the green transport mode in the coming days.

There are 6.5 lakh registered vehicles in Mysuru. The directorate of urban land transport devised the initiative to promote non-motorised modes of transport in Mysuru. "Though the initiative is very good, the bicycles don't appear to be comfortable for people used over 30 years. We also need better quality bicycles so they don't break down often. Keep 100 bicycles for young ones and replace the rest with quality and comfortable cycles," Siddaramaiah said.

"I used to cycle to my high school in Mysuru, 22km from my village. Till second P.U. I would cycle to my village every Saturday and return to Mysuru on Sunday.



RELIVING HIS YOUTH: The CM enjoys a bicycle ride at Jayachamarajendra Circle in Mysuru after launching Trin Trin on Sunday.

TRIN TRIN GIVES FILLIP TO CYCLING

With the launch of India's first PBS system, 'Trin Trin', Mysuru joins the ranks of cities such as Paris, London, Mexico City and Hangzhou in China, which have successfully implemented the system. PBS system has been implemented in 600 cities across the world.

Registration Fee	One to Two hours	Up to 12 hours	450 bicycles available for hire (excluding 20 gear cycles)	48 docking stations across the city
350 (includes refundable security deposit of 250)	5	150		
Under one hour No charge	Up to three hours	More than 12 hours	20.52 (per cycle per day)	
	10	250		

System will be introduced in Bengaluru this year, says CM

Team News Network

Mysuru: After flagging off the public bicycle sharing (PBS) system - the first of its kind in India - here on Sunday, chief minister Siddaramaiah said that the scheme would be introduced in Bengaluru later this year.

Attributing the rising air pollution levels in Bengaluru to its voracious population, Siddaramaiah said, "Many people are contracting air pollution related diseases as a result. Use of cycles will decongest Bengaluru's streets

which is why people want to come and settle here. But in the coming days, population of Mysuru will increase. So, those going to office need to bear this in mind, and start using bicycles. It will also bode well for the city if four-lanes start using bicycles."

The CM, who relived his youth by enjoying a ride around Jayachamarajendra Wadiyar Circle where he launched the scheme, pointed out that the number of vehicles had shot up drastically in Mysuru in the recent years. Highlighting the need for in-

Automated system to reduce hassles

In a bid to promote and popularise the system, MCC is offering citizens a three-month window to register under PBS for Rs 350, of which Rs 250 is a refundable security deposit. Under the automated system, users will be given a smart card that will operate more or less like a metro card. Users can visit any of the six registration centres across the city, furnish proof of their identity, and get a smart card that will be loaded with Rs 50.

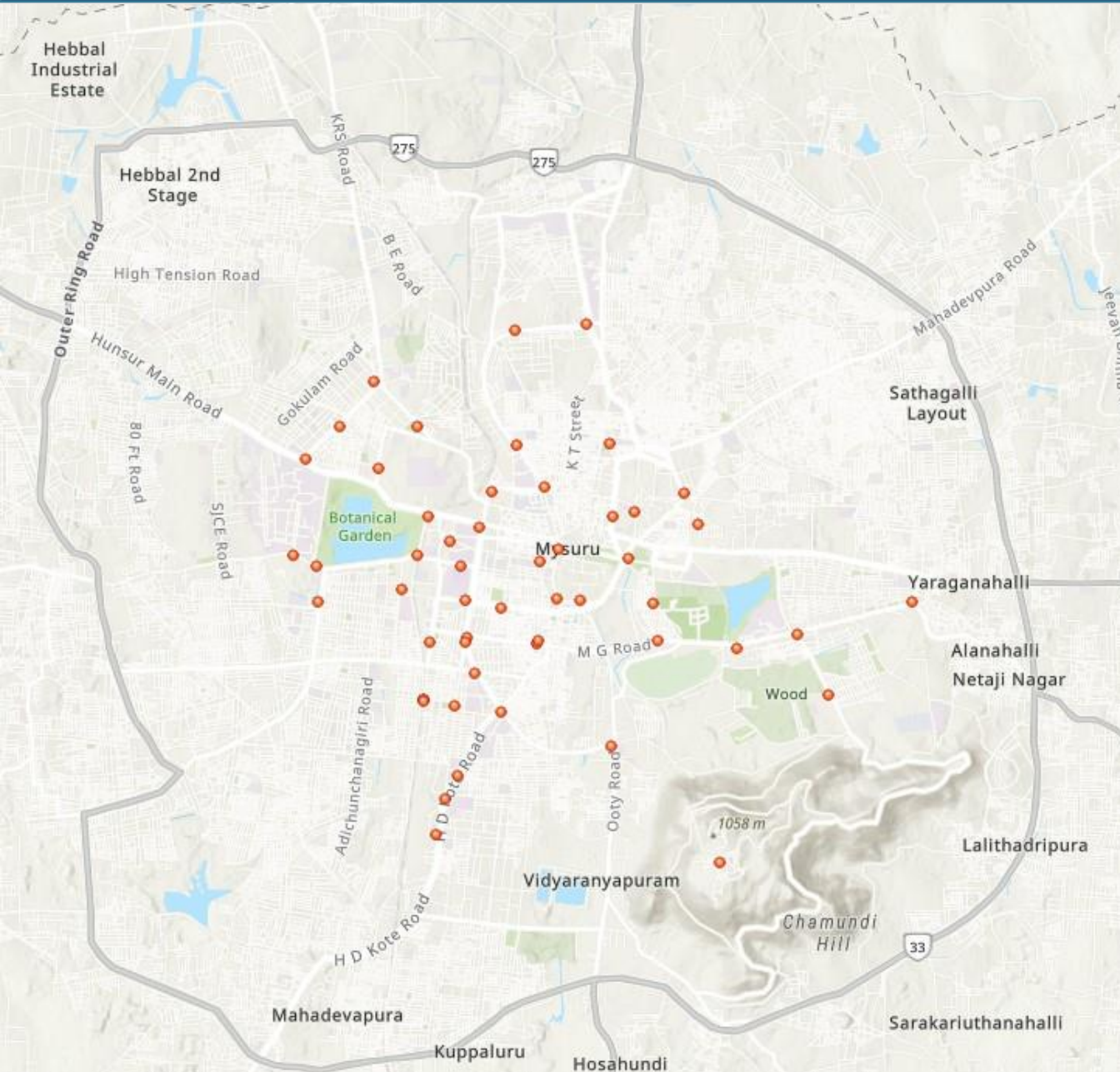
TIMES VIEW

A citizens, we can either have a complaining about rising pollution levels in our cities, which is largely a consequence of the rise in vehicle numbers, or be a part of the solution to this problem.

The public cycle sharing system that has been launched in Mysuru is an ideal solution to the mobility woes that most cities across the country are grappling with. Mysuru citizens can drive the change and set an example. Of course, launching a scheme such as Trin Trin in a city the size of Bengaluru presents greater challenges. The state and central governments must study how the model has been implemented in some of the world's largest metropolises and try to change it in the Indian cities.



Mysuru



2017 PBS 1.0

28sq km Area Coverage
(1/4th Mysuru Area)

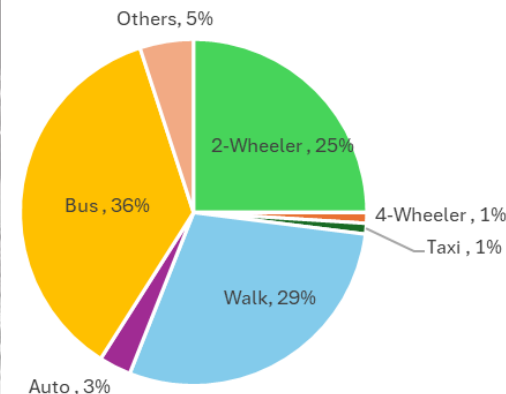
16000+ Registrations

33 % NMT Trips

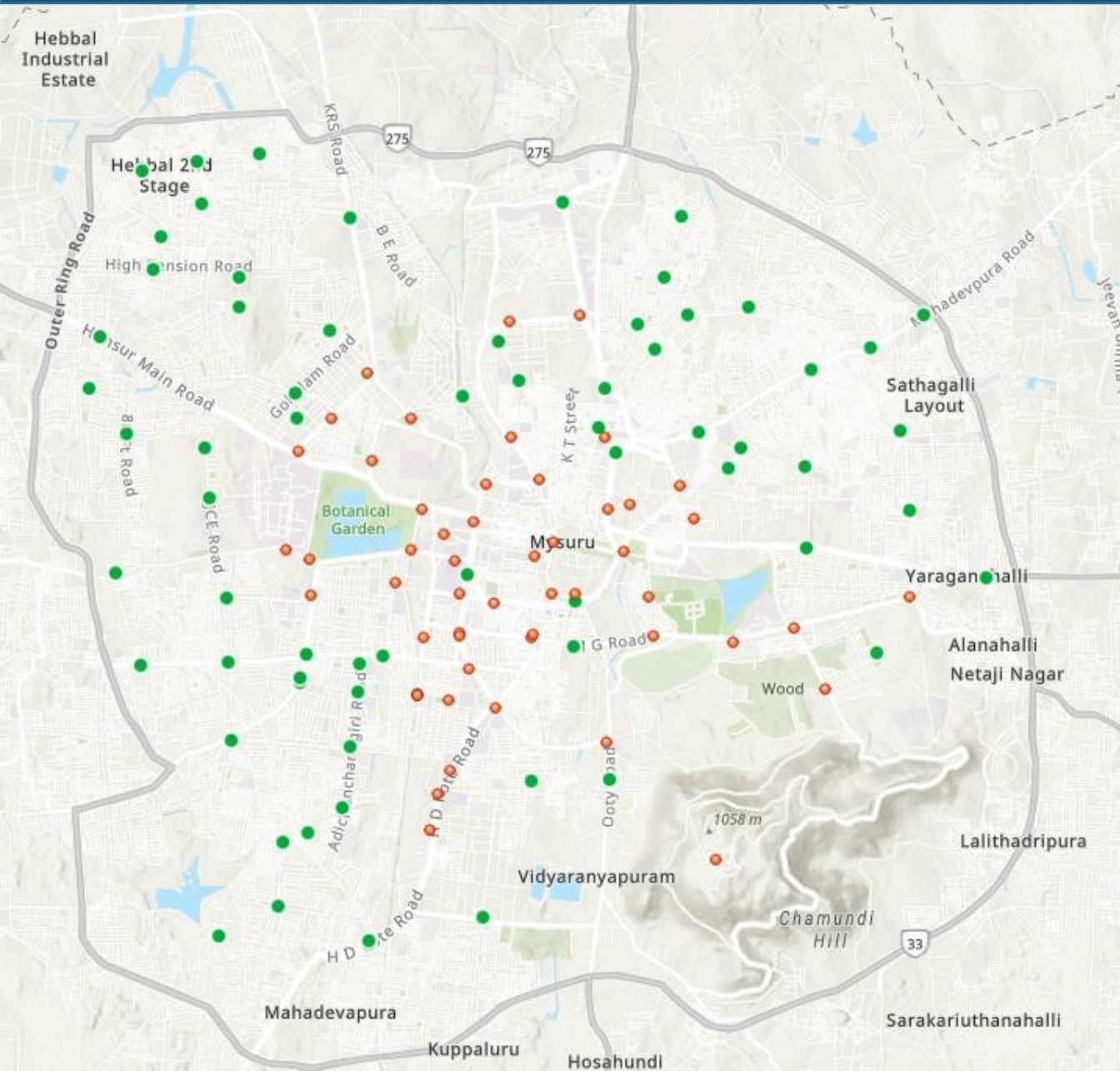
2.3 rides/cycle/day Bicycle Usage

1200-1400 Rides per day

Modal Shift to PBS



Mysuru



2023 PBS 2.0

108sq km Area Coverage

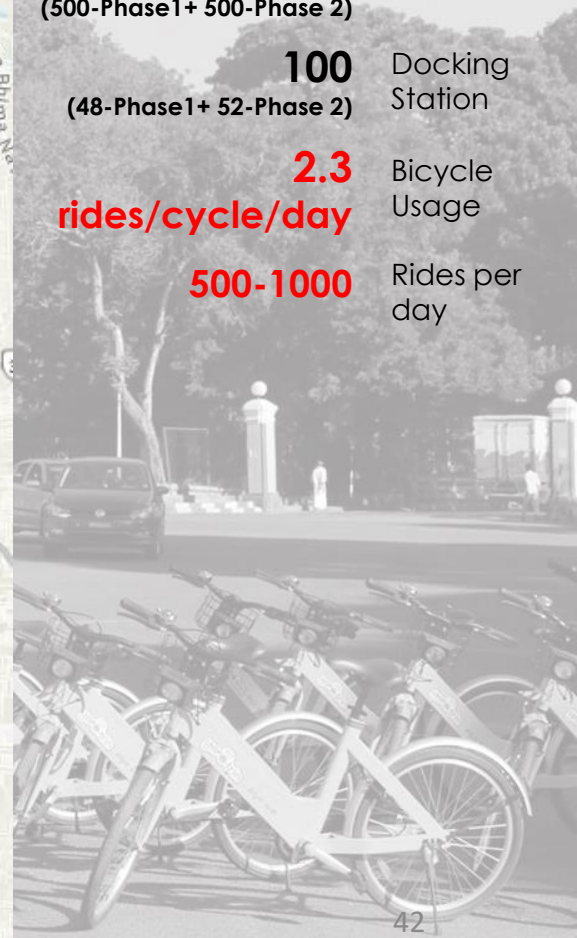
16000+ Registration

1000 Cycles
(500-Phase1+ 500-Phase 2)

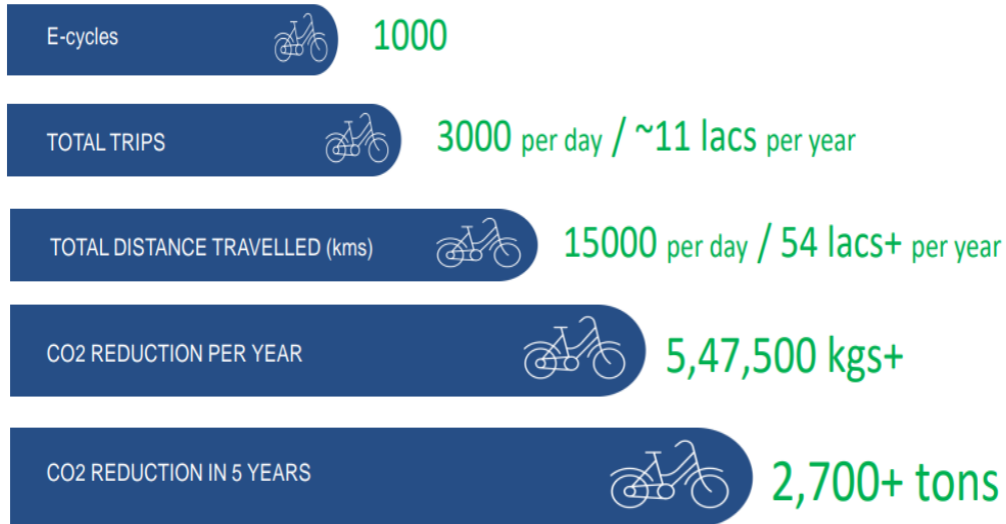
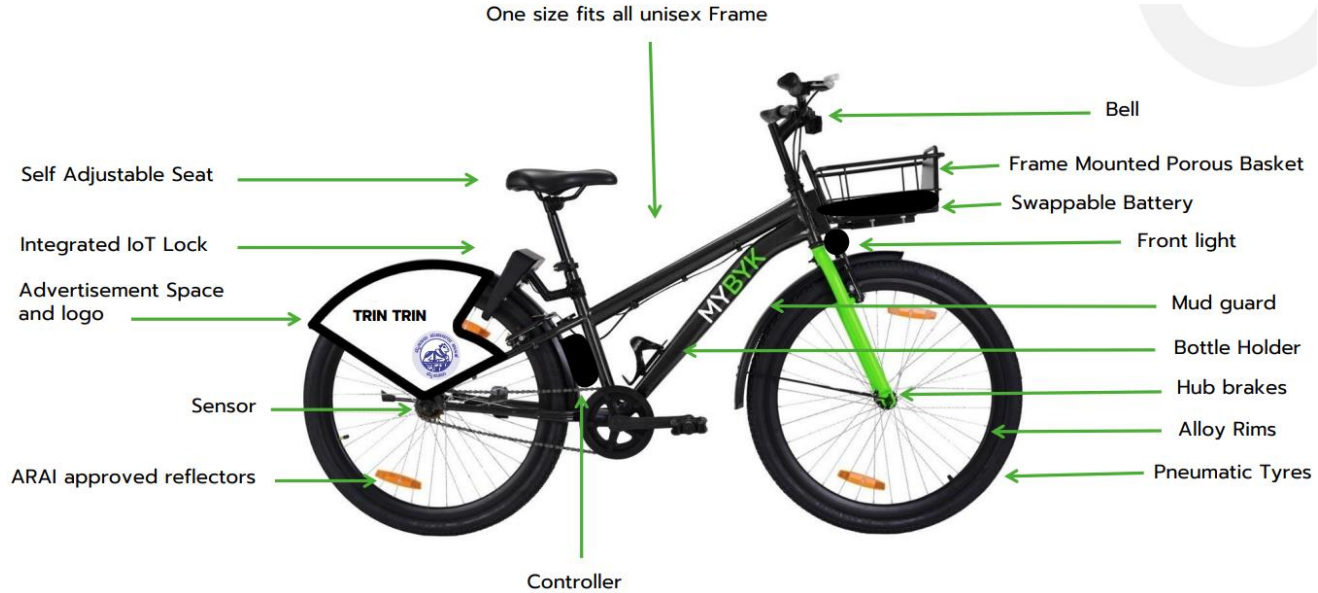
100 Docking Station
(48-Phase1+ 52-Phase 2)

2.3 Bicycle Usage
rides/cycle/day

500-1000 Rides per day

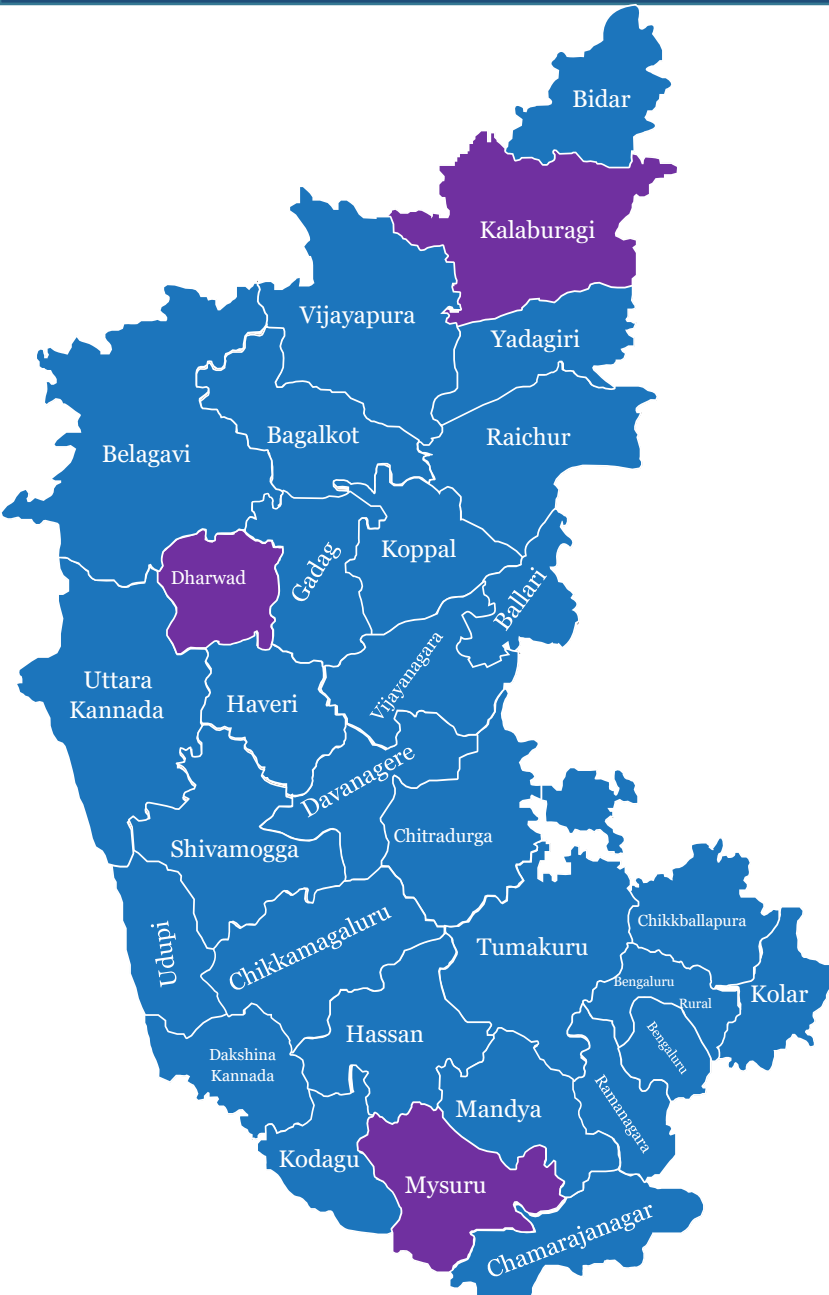


2. PBS 2.0



*Assumptions: 3 trips/e-cycle/day, 5kms/trip, 100 gms CO2 emission prevented per km

DTEE Cities- Hubballi- Dharwad



Hubli and Dharwad

Twin cities in Karnataka

404.2 sq km

Area

9.4 Lakh

Population (2011)

**23% NMT, 30% PT, 6% IPT,
41% private vehicles**

Modal Share

OTHER PROJECT TO ENHANCE TRANSIT EXPERIENCE

CHIGARI SAMPARKA



COMMUNICATION & OUTREACH

A poster for Chigari Samparka. It features a deer and a bird. The text includes '10% bonus', 'Help us break the chain, choose cashless travel; Be Contactless; Be Smart', and 'TRAVEL CARD'. It also mentions 'HDBRTS has adopted several safety measures and protocols'.

A poster for Chigari Samparka. It features a deer and a bird. The text includes 'We care for your health! Be kind and wear a mask!' and 'ನಮಗೆ ನಿಮ್ಮ ಆರೋಗ್ಯದ ಕಾಳಜಿ ಇದೆ: ದಯವಿಟ್ಟು ಮಾಸ್ಕ್ ಧರಿಸಿ!'. It also mentions 'HDBRTS has adopted several safety measures and protocols'.

PRAM SHARING SYSTEM



LACTATIONS IN BRT TERMINALS



OTHER PROJECT TO ENHANCE TRANSIT EXPERIENCE

INTERACTIVE FLOOR BASED ACTIVITY TO MAKE WALKING FUN



BEFORE

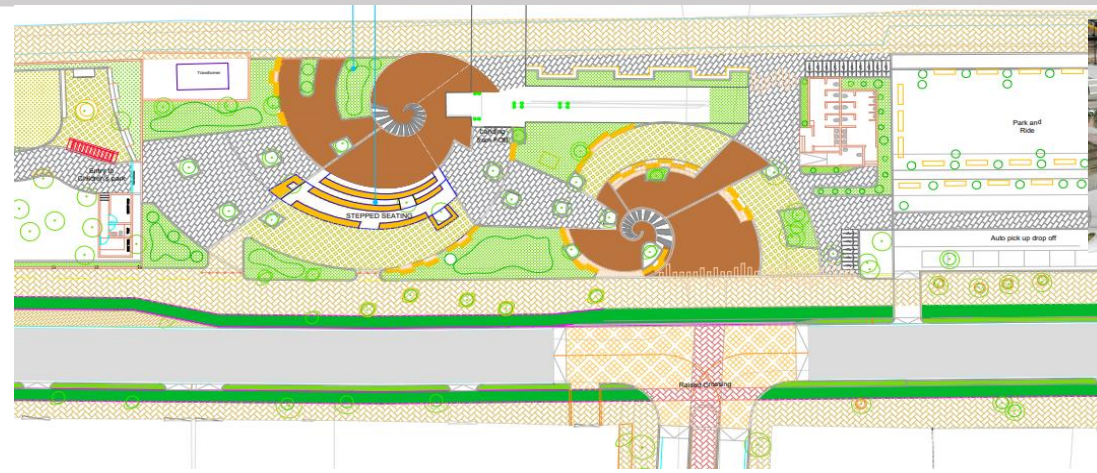


AFTER



OTHER PROJECT TO ENHANCE TRANSIT EXPERIENCE

TRANSIT ORIENTED DEVELOPMENT AT NAVANAGAR (Central Plaza)



Cycle Track along the service road

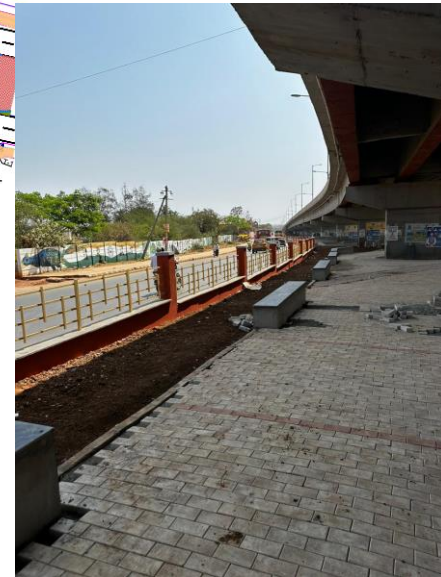
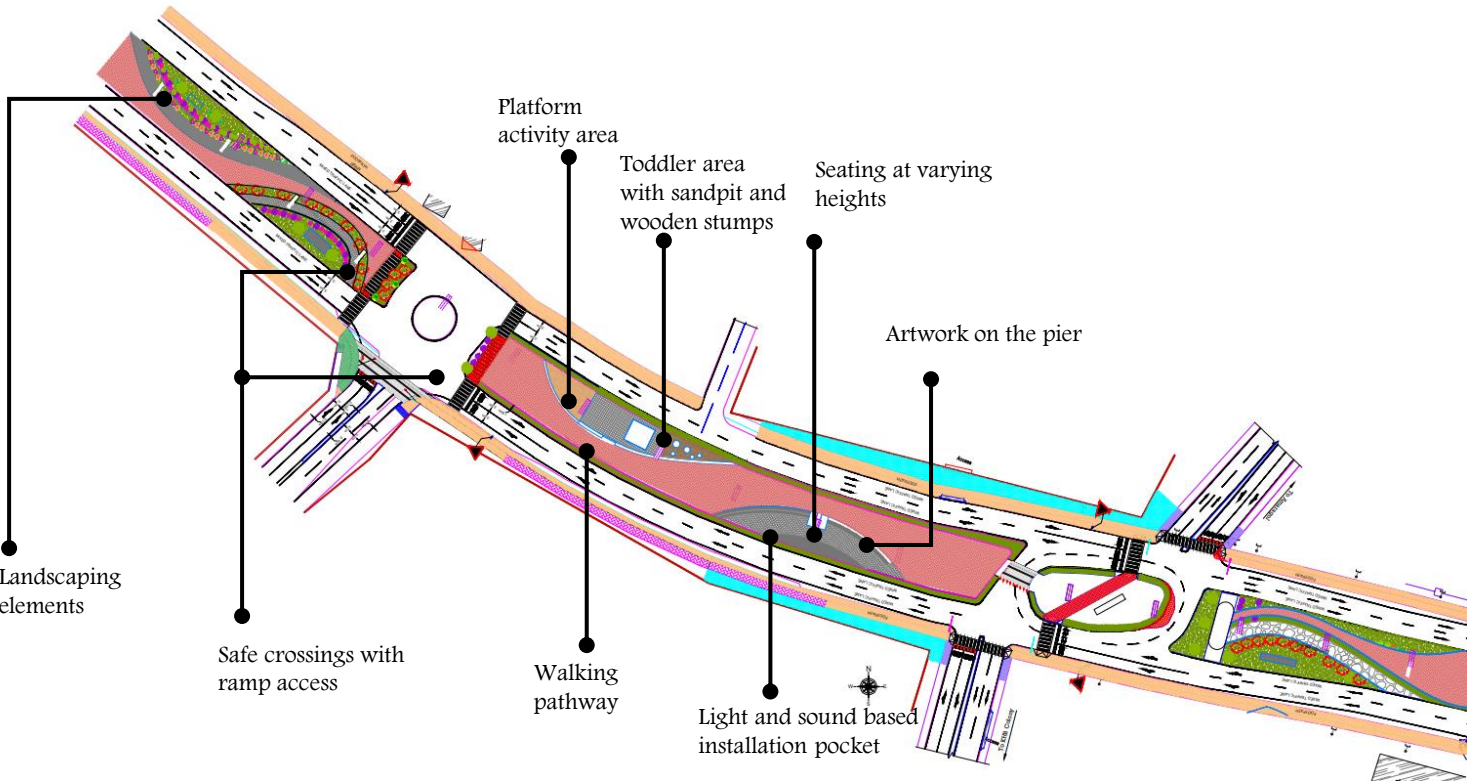


ART IN TRANSIT (Bannada Chigari)



OTHER PROJECT TO ENHANCE TRANSIT EXPERIENCE

DEVELOPMENT OF UNDER FLYOVER SPACES (under progress)





shaping the way cities move

Directorate of Urban Land Transport,
Urban Development Department, Govt. of Karnataka



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DULT Twitter handle: @DULTBangalore (<https://twitter.com/DULTBangalore>)

DULT LinkedIn handle: <https://in.linkedin.com/company/directorate-of-urban-land-transport>

DULT Instagram handle: <https://www.instagram.com/dultbangalore>

Cycle Day Facebook Page: www.facebook.com/blrcycleday

Open Streets-Bengaluru Blog: www.openstreetsbengaluru.wordpress.com

Skype: dultbangalore