Hubballi: Regional information







☐ Commercial hub



Educational center



☐ Renowned for Hindustani music



LAKE

Cyclothon



☐ South - western railways headquarters



☐ Chennai- Mumbai transit city



- ☐ Though there are active cyclists, no dedicated cycling infrastructure.
- □ No central green space and place making for citizen quality of life.
- ☐ Need to maintain good water quality and improve edge conditions of the nala.
- ☐ Unkal nala is the **only large green space** available in the city.

☐ Hubballi – Dharwad Corporation area 202Sq.km.

- ☐ Hubballi city area 120 sq.km.
- □ Second largest city in the state of Karnataka after Bengaluru.

☐ Hubballi is nodal point of the region and hub of flow of idea due to its geographical and historical importance.

% of vehicular share on roads

71%

Two wheelers

7%

1%

6%

- Auto-rickshaws
 - Jeeps

- Motor cars
- Omni bus

6%

Stage carriers

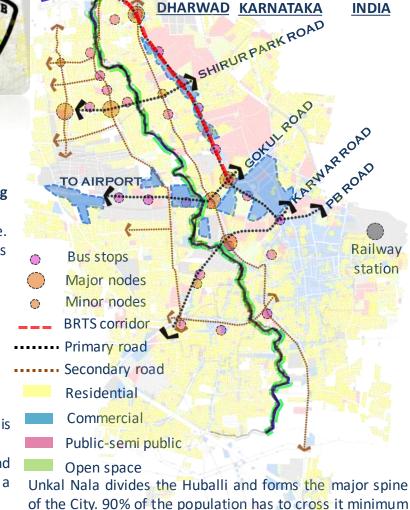
Goods vehicles Others

3% ^{5%} 1%

Traffic mode share:

- wheelers and dominate with share of 41%.
- Walk constitute 16% of the trips whereas bicycle

- Bus patronage relatively high (30%).
- NMT share is low: constitute 7%.



twice a day. And majority of the population resides along

Hubballi Dharwad

Smart City

it. It is intrinsic part of their everyday life.



☐ To become gateway to north Karnataka (smart city vision)

☐ To get on the list of global creative cities through technology (smart city), talent (making cities more livable) and tolerance (promoting inclusion through connecting all realms of the city)





INTRODUCTION & CONTEXT

Existing nala information

Local issues and project necessity

Aim and Objectives



Unsafe and Chaotic traffic condition

Health & Hygiene

- Sewage and waste water discharge in nala.
- Solid waste disposal in nala.
- Mosquito breeding.
- Foul air.
- Scrub vegetation does not benefit environment.

Social & Cultural

- Lack of recreational spaces in the neighbourhood.
- No social integration.
- Unsafe & Unused dead space

Comparison

NECESSITY, AIMS AND OBJECTIVES

Dedicated Cycling track

- ☐ Fight congestion **□** Ease emissions
- ☐ Safer, more convenient and popular way of transport.
- ☐ Ensure seamless bicycle connectivity along the corridor.

- ☐ Create identity, sense of place and contribute to the overall city image.
- ☐ Encourage social activities and social integration.

- ☐ Convert inaccessible and a dead space into physically accessible and vibrant green spine of the city.
- ☐ Showcase the 'mission transformation' and 'swachchata' drives...



Alternate Mode of Transport



Last Mile Connectivity



Green and environment friendly



Health Benefits



☐ Length: 8.5 Km

Unkal lake.

Unkal lake.

☐ Width: 12m to 20m

of total population)

☐ Property boundary: 20m to 55m

☐ Currently fed by overflow of Unkal lake.

☐ Population along proposed corridor: 1 Lakh (20%

☐ Water quality depends on the water quality of

☐ STPs are set up, one each on three inlet points of

☐ Total capacity of all the STPs is 4MLD (2+1+1).

☐ Sewage inflow through many drain inlets.



Cycling along main road







Unkal nala GREEN MOBILITY CORRIDOR - USPs

SUSTAINABLE LAST MILE CONNECTIVITY

- 1. Integration with BRTS corridor to encourage sustainable mode of feeder connectivity.
- Sustainable mobility in the city instead of provision of IPT modes (Intra para transit) (auto, taxi etc.).

INCREASED NMT SHARE

1. This proposed development would help in increasing the sustainable mobility (NMT) share of the city by the provision of walkway and cycle track.

INTEGRATION WITH PROPOSED PBS PROJECT

- 1. Provision of PBS stations in proposed corridor to integrate it with HDSCL PBS project.
- 2. This would facilitate city-wide NMT circulation.

INCREASED REVENUE GENERATION

1. Comfortable access, recreational & commercial will increase revenue generation which otherwise would not be possible in case of roadside footpaths.

PEDESTRIAN SAFETY AND USABILITY

- 1. Segregating pedestrian traffic from secondary roads.
- This would help reducing pedestrian and vehicular conflict.
- Provide maximum width of the roads for BRTS and at grade traffic.
- 4. NMT along water front acts as visual treat, it would induce larger footprint and better usability as compared to roadside footpaths and cycle tracks.





Multi arched check dams with walkway



Safety

CCTV and street lighting with PCC pavement with smart poles and LED lights.



Materials

paint finish



Economic

Advertisement boards



Solar panels



Canopy over walkways and cycle tracks.



Stamped concrete for walkways to create different patterns.



Race events



Air quality sensors



Guardrails or low walls Stone cladding on toe walls along the edges of the along walkway and cycle corridor. tracks for seating



Vending zone

Hubballi Dharwad **Smart City**







<u>Unkal nala GREEN MOBILITY CORRIDOR – Typical sections</u>

