

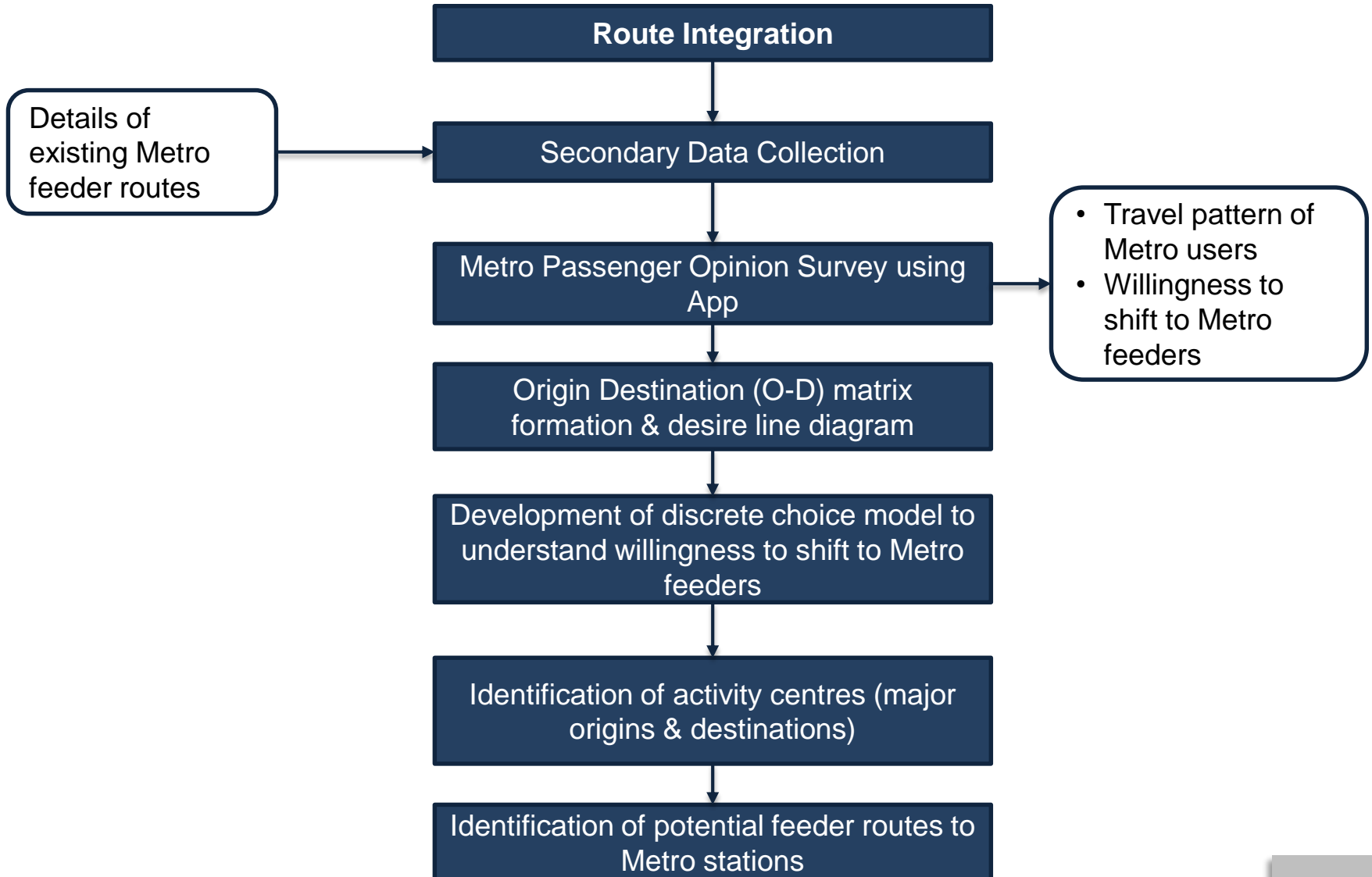


Route Integration

Objective

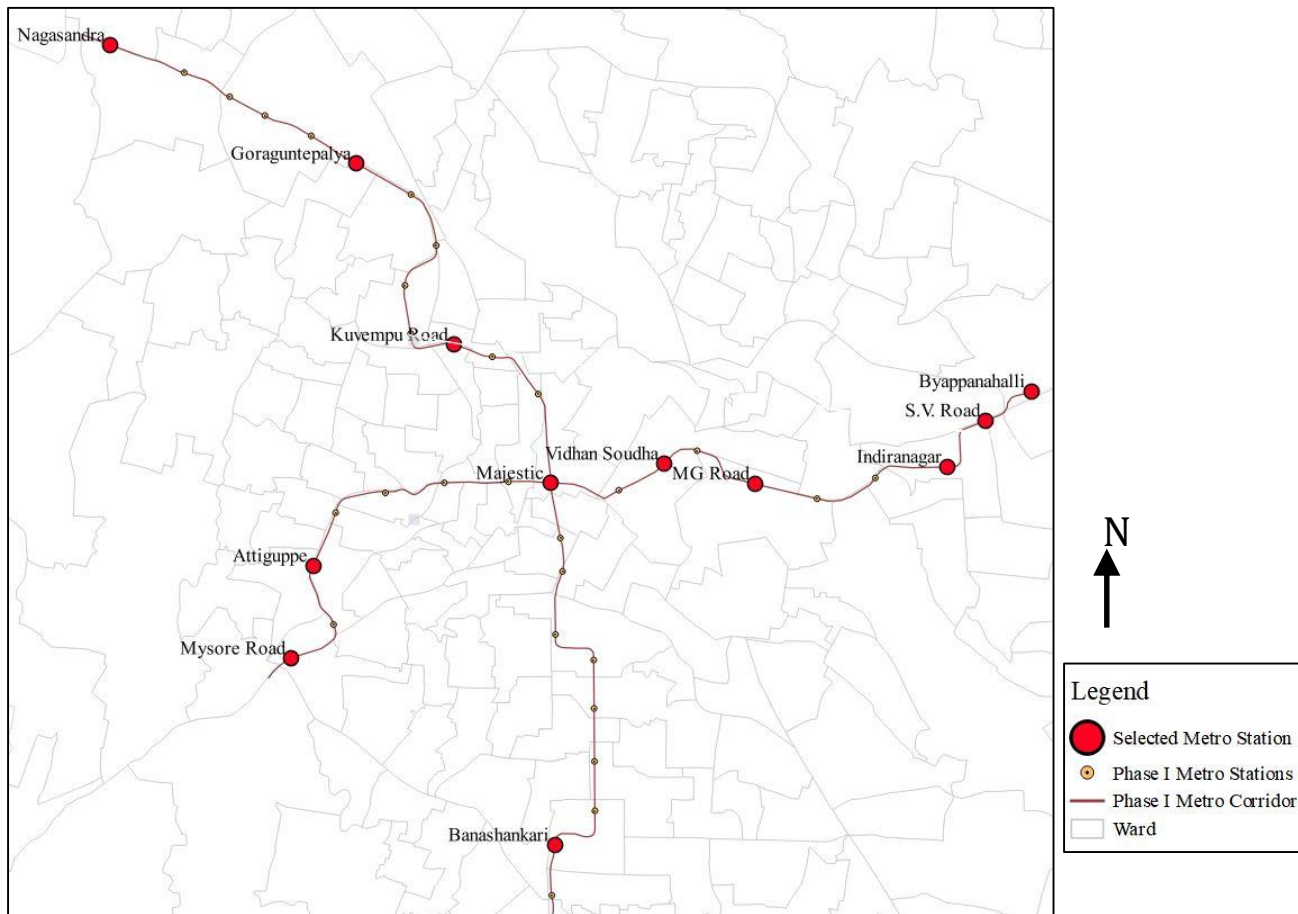
- To propose feeder routes for Metro Phase I corridor.

Methodology



Survey Locations and Sample Size

Type of Survey	No. of Locations and Sample Size	Mode of Data Collection	Date of Survey
Metro passenger opinion survey	12 Locations 2,312 Samples	Open Data Kit (ODK) App based survey	24 th January - 09 th February 2018



App Interface for Survey

12:22 PM 0.00KB/s 70%

Metro Passen...

Boarding Metro Station

- Attiguppe
- Baiyappanahalli
- Banashankari
- Chickpete
- City Railway Station
- Cubbon Park
- Dasarahalli
- Deepanjali Nagar
- Goraguntepalya
- Halasuru
- Hosahalli
- Indiranagar
- J P Nagar
- Jalahalli

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Metro Passen...

First mile connection

How did you reach the metro station?

- Walking
- Car
- Two wheeler
- Auto
- Bus
- Cab/Taxi
- Share Taxi

Home to metro station distance?

- Less than ½ Km
- ½ -2 Km
- >2 <5 Km
- More than 5 Km

Time to reach Metro Station (Min)

App Interface for Survey

2:12 PM 0.00KB/s 64%

Metro Passen...

Willingness to shift to "Feeder Bus"

Current Mode Travel Cost(Rs)
116

Current Mode Travel Time
55

Scenario 1
Comfort - AC

Feeder Bus_Travel Cost
40

Feeder Bus_Travel Time
56

Your Choice	Current Mode	Feeder Bus
	<input type="radio"/>	<input type="radio"/>

2:12 PM 0.00KB/s 64%

Metro Passen...

Willingness to shift to "Feeder Bus"

Current Mode_Travel Cost(Rs)
116

Current Mode_Travel Time(Min)
55

Scenario 3
Comfort - Non AC

Feeder Bus_Travel Cost (Rs)
20

Feeder Bus_Travel Time (Min)
56

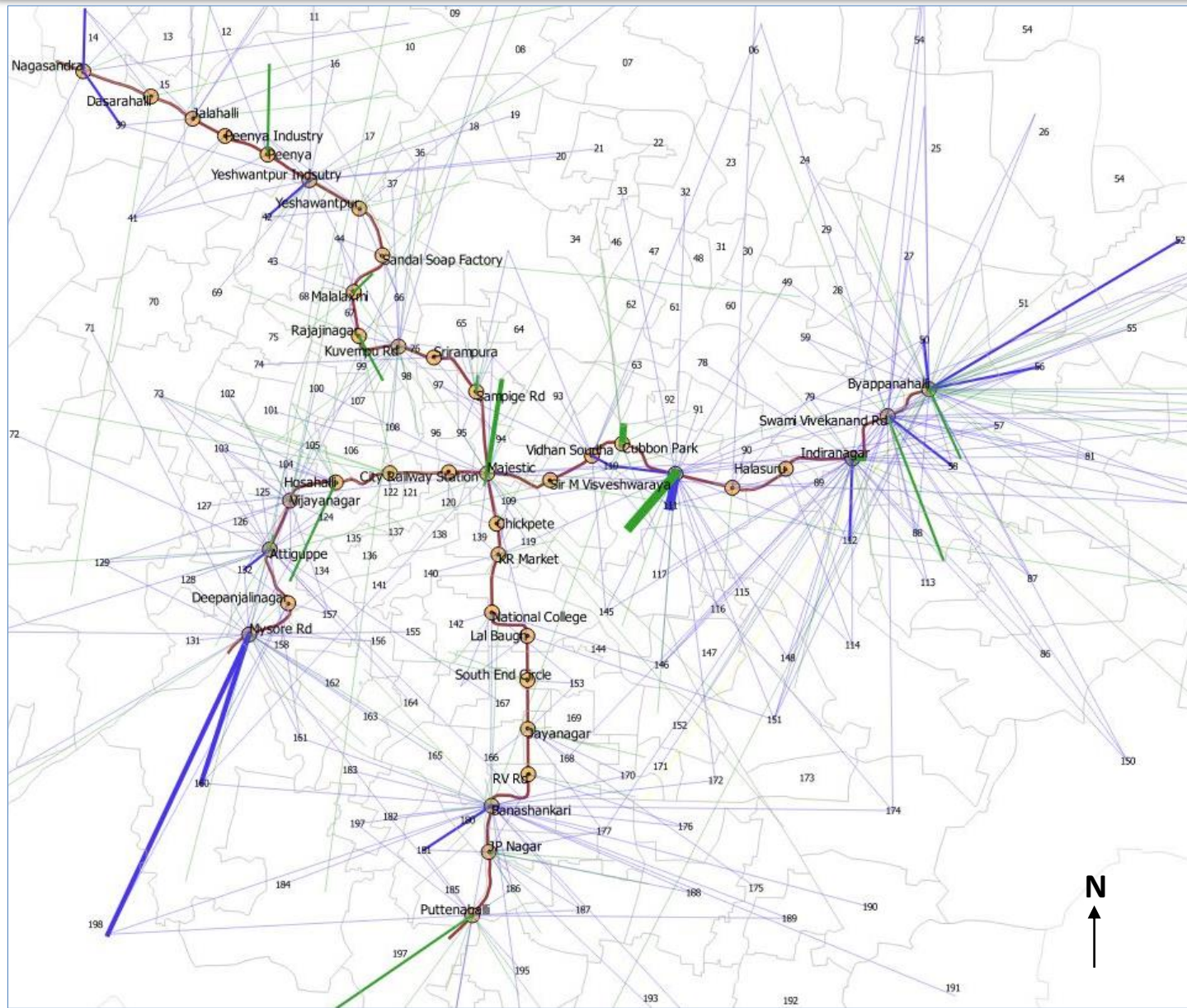
Your Choice	Current Mode	Feeder Bus
	<input type="radio"/>	<input checked="" type="radio"/>

App Interface for Survey

Output

Willingness_to_shift_1 CM_TC_1	Willingness_to_shift_1 CM_TT_1	Willingness_to_shift_1 Scenario_1	Willingness_to_shift_1 Bus_TC_1	Willingness_to_shift_1 Bus_TT_1	Willingness_to_shift_1 list_widget_1	Willingness_to_shift_1 Scenario_2	Willingness_to_shift_1 Bus_TC_2	Willingness_to_shift_1 Bus_TT_2	Willingness_to_shift_1 list_widget_2
46	48	Comfort - AC	20	40	Feeder_Bus	Comfort - AC	16	30	Feeder_Bus
82	25	Comfort - AC	40	62	Current_Mode	Comfort - AC	31	50	Current_Mode
36	25	Comfort - AC	10	32	Current_Mode	Comfort - AC	8	22	Current_Mode
82	15	Comfort - AC	40	56	Current_Mode	Comfort - AC	30	46	Feeder_Bus
NA	35	Comfort - AC	20	40	Current_Mode	Comfort - AC	15	30	Current_Mode
NA		Comfort - AC	N/A	N/A		Comfort - AC	N/A	N/A	
9	30	Comfort - AC	40	56	Feeder_Bus	Comfort - AC	30	46	Feeder_Bus
36	20	Comfort - AC	20	40	Current_Mode	Comfort - AC	15	30	Current_Mode
9	65	Comfort - AC	30	54	Feeder_Bus	Comfort - AC	23	44	Feeder_Bus
60	65	Comfort - AC	30	54	Current_Mode	Comfort - AC	23	44	Current_Mode

Access-Egress Desired Lines



Legend

Desire Line Diagram Access

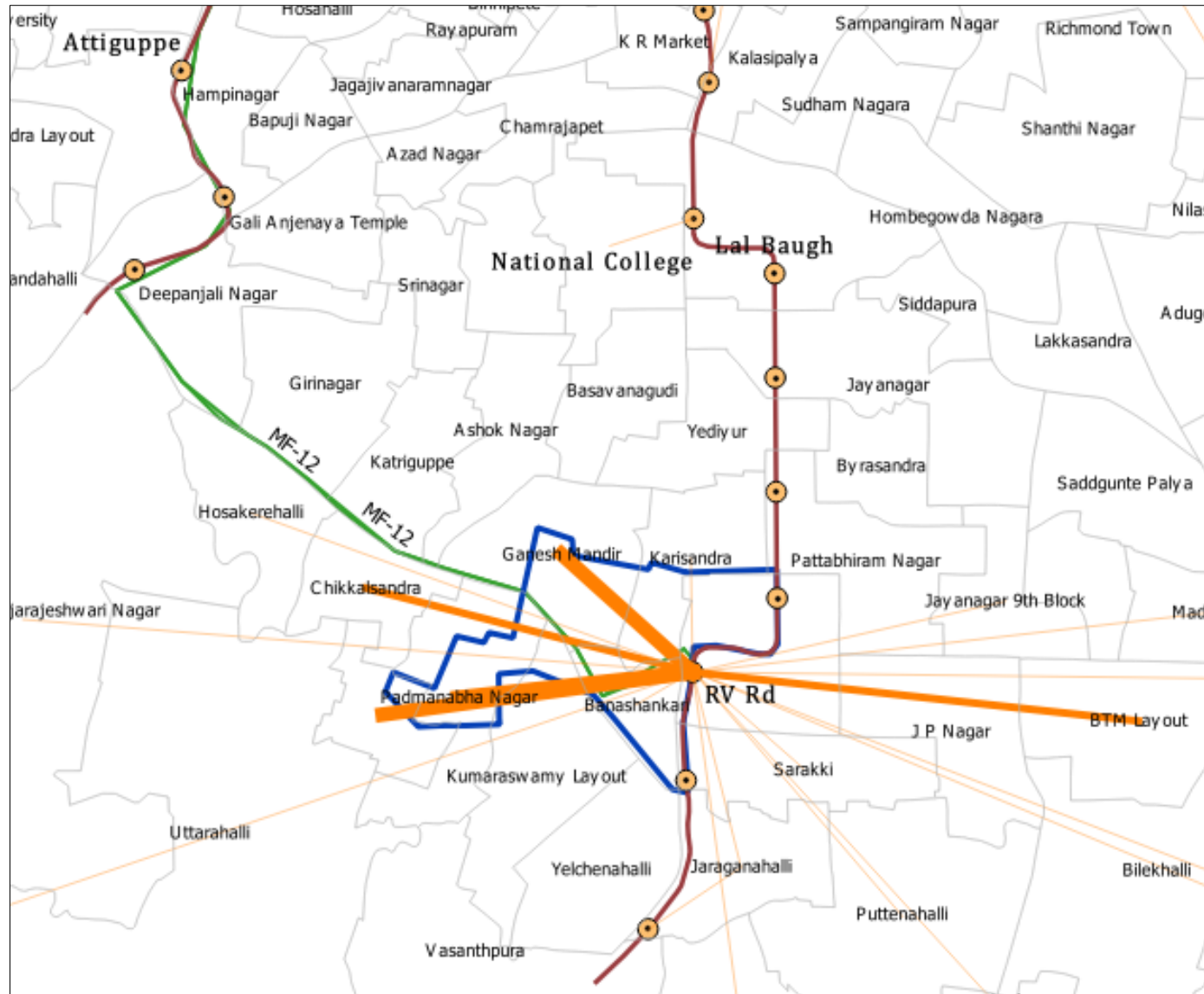
- 1-15
- 15-35
- 35-50
- 50-65
- 65-85

Desire Line Diagram Egress

- 1-25
- 25-50
- 50-75
- 75-100
- 100-125

- Phase I Metro Station
- Phase I Metro Line
- Ward

Banashankari: Proposed Feeder Routes



Legend

- Desire Line: Banashankari
 - 1.0 - 5.0
 - 5.0 - 10.0
 - 10.0 - 15.0
- Existing Metro Feeder
- Feasible Metro Feeder
- Phase I Metro Station
- Phase I Metro Line
- Ward

Findings and Recommendations

Findings

- ~40% respondents - willing to shift to Metro feeders
- 74% - access trips and 67% - egress trip (distance 2-5 km) potential users

Recommendations

- Feeder routes - Gorguntepalya, Mysore Road and Banshankari Metro stations.