

# MOBILITY OR ACCESSIBILITY

# Alternative Mobility Solutions and Pedestrianization of Existing Urban Neighbourhoods

(AAPKI SADAK)

#### **Project Team**

Ashok B. Lall Architects
Aastha Chauhan
Innovative Transport
Solutions
Oasis Design Incorporated
SGArchitects

#### **SUPPORTED BY:**

SHAKTI SUSTAINABLE ENERGY FOUNDATION

a community engagement led process with detailed surveys and technical design support to arrive at practical solutions



**Draft Proposal** 

# TRANSIT CONNECTIVITY IN DELHI

CWG STREET IMPROVEMENTS
CNG BASED PUBLIC TRANSPORT
DELHI METRO
BUS RAPID TRANSIT

...yet

Where is the enjoyment of the city?

Where is the improvement to social life?



Source: automotivehorizon.sulekha.com



SECURITY OF THE PROPERTY OF TH

# TOO MANY RESOURCES? TOO MUCH MONEY NEEDED?

Indian Infrastructure Report 2010-11 (Baindur & Kamath, 2009);

During the year (2010-11), the High Powered Expert Committee (HPEC) for urban infrastructure services estimated the total investment requirements for

urban infrastructure, renewal, and redevelopment (including slums) at  ${f Rs}$ 

**39,00,000 crore** (at 2009–10 prices) during 2012–31. The largest share of this investment is required for urban roads (about **44 per cent**)... Even the largest centre driven urban infrastructure programme, JNNURM, has not been able to contribute much towards meeting the investment requirements.

# THE OVERWHELMING NEED

# THE 'FIRST /.LASTOMINE NER COBLEMOOD

Vehicular dependence

Unliveable neighbourhoods

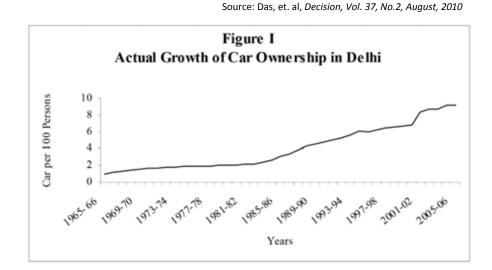
Lack of pedestrian / NMT infrastructure

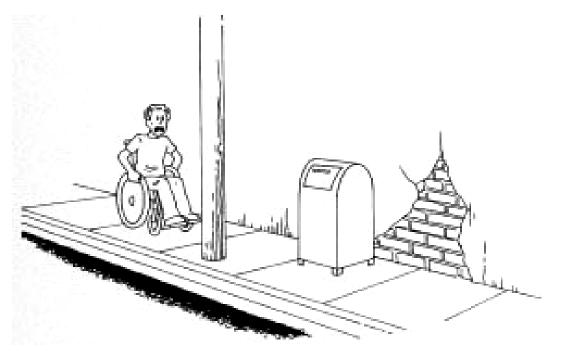
Universal access

Clutter & obstacles

**Parking crisis** 

Micro level issues unaddressed







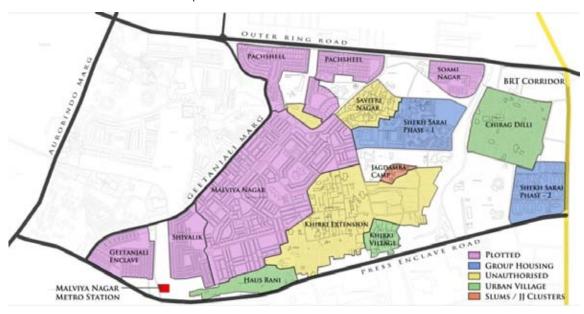
Source: fhwa.dot.gov

Source: pedestrianliberation.org

# SITE - A TYPICAL URBAN PRECINCT IN DELHI



The Landuse Plan of Zone F-10 as per ZDP.



The REAL condition on ground considering the neighbourhoods and diversity within the selected study area



According to official record, the area is mainly residential and represented as a single fabric with little complexity.

However, even on an initial visual and physical analysis it is revealed that;

- •Footpaths are too narrow, high, and or broken
- Not accessible to differentlyabled persons
- •No direct pedestrian or cycle access to important public transit nodes due to high speed traffic barriers
- •Un-co-ordinated design of public utilities and poor maintenance leading to obstruction of pedestrian traffic (location of electric pillars, incorrectly placed fencing, flooding in subways etc.)
- •Absence of certain NMT modes due to over congestion by personal automobiles

**TOPOGRAPHIC SURVEY** 

**TRAFFIC SURVEYS** 

**PHOTOGRAPHIC SURVEY** 

**USER SURVEYS** 

**PARKING COUNTS** 

Analysis

Effective Right Of Way

Available Open Land & Potential

Traffic Flow Analysis

Public Transport Routes & Connectivity

**User Survey Analysis** 

Activity Mapping Of Major Areas





# **COMMUNITY WORKSHOPS - Locations**

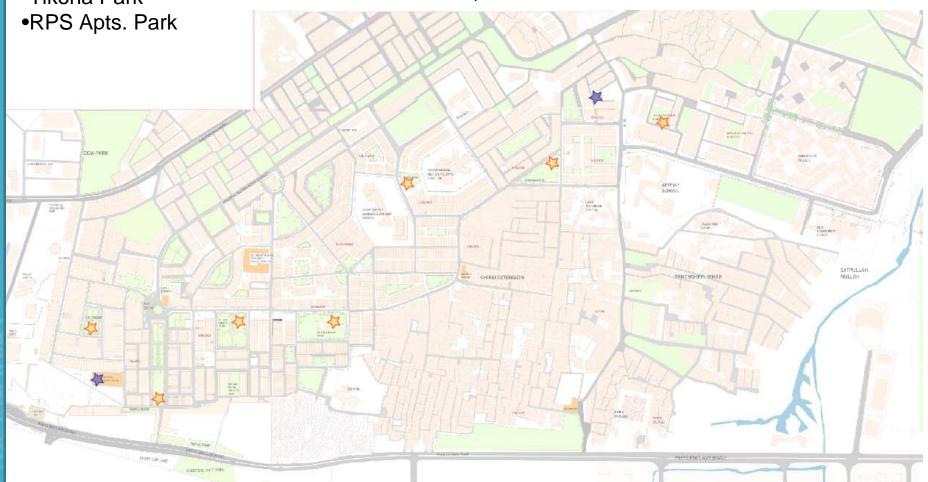
- 9 Community Park in all:
- Shivalik A Block Park
- •F Block Linear Park
- Hitesh Mehta Park
- Bhagat Singh Park
- •Ravi Mehta Park
- •Tikona Park

ENOUIRY

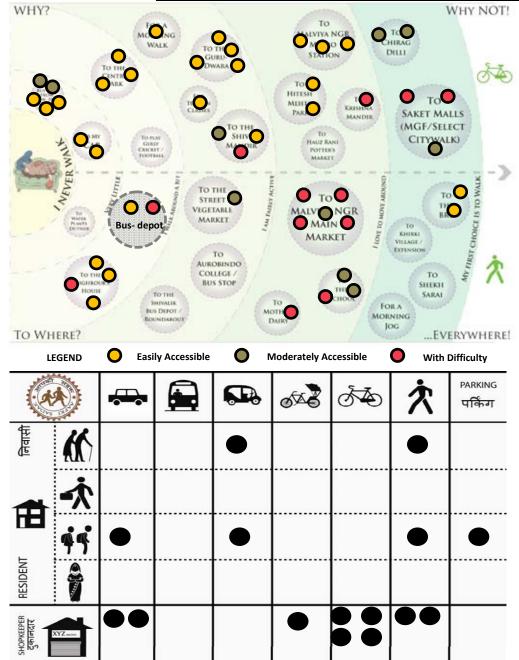
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**Indoor Brainstorming:** 

- Gurudwara Babadeep Singh (Metro Links) and F Block)
- •N Block Residence of Mr. R P Kakkar (Ward Committee and MN RWA issues addressed)



# COMMUNITY WORKSHOPS - Exercises









THE ENGUIRY

# THE ENQUIRY

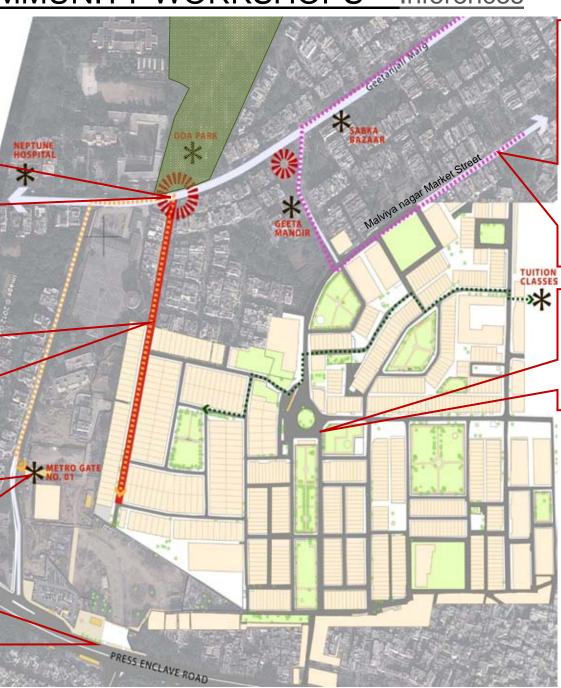
# <u>COMMUNITY WORKSHOPS – Inferences</u>

The junction to be refurbished with traffic calming and better crossing facilities to reach the most frequently visited DDA Park.

Refurbish the street section, provide segregated footpath with proper lights, as most used road by Shivalik residents of all age groups.

Identify & Create shorter routes to reach to the Metro Gate No.3

The route to reach Metro Gate No. 02 to be redesigned along with regulating the opening closing timings of society



Refurbish
Malviya Nagar
street section,
provide
segregated
footpath with
proper lights,
with proper on
street parking to
prevent
encroachments.

The Gol Chakkar as bus terminal or parking needs to be given a thought.

### COMMUNITY WORKSHOPS - Demands

Linear Park - Shivalik

Traffic on this narrow lane is actually mostly passing through, for Lado Sarai, Mehrauli, etc. Too much for this width People have vacated the ground floors due to traffic & congestion if front of houses

Dedicated dotoratatis is mustust.

A - Block - Shivalik

Designated parking space elsewhere is demanded in order to free up walking

F-Block - Malviya Nagar

Access to Metro in front of Hauz Rani is not good. Improvement of existing link should be first priority.

Hitesh Mehta Park -Malviya Nagar

Chained Panking system is hurting pedestrians. Alternative systemiis dlemandled!!

Dedicated walking path is demanded!

Shivalik society gates are closed, leading to taking of longer routes for metro. Short cut to Metro through Hauz Rani feels dim and unsafe Improveme

















Walking Convenience

चलने की सहितयत

For All People

सब लोगों

Children **Playing** बच्चे

**Public Transport** 

सार्वजनिक परिवाहन

Selling Space

ਗਗਵ

Independent **Public Transit** 

स्वतंत्र

सार्वजनिक

Rest and Shade आराम

और छाया

परिवाहन

access and critical idling / parking space School hours need to be managed much better.

Traffic coordination demanded

Rickshaws or alternative feeder service to reach public transport in an affordable way, demanded.

Park maintenance is a major issue

RPS Apartments -Sheikh Sarai

Access to public transport critically demanded.

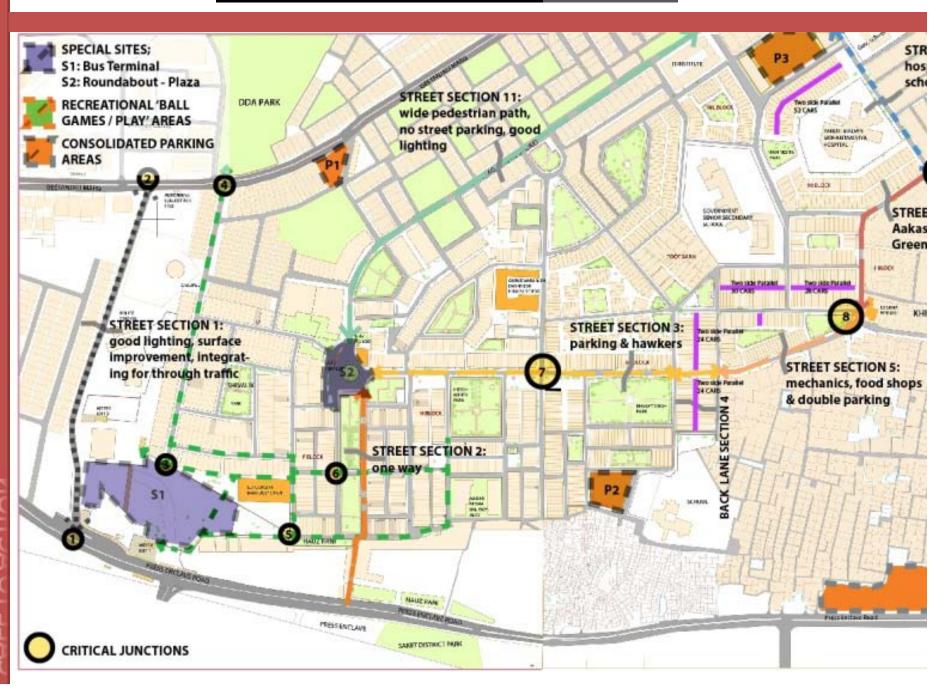
Dedicated walking path demanded

School hours need to be managed much better. Traffic coordination demanded.

Wine and Beer shop must be moved away in order for all neighbourhood residents to enjoy convenient access to the market.

Improvement works by PWD are good, but blocking water and entrance gates. It should be better planned and some parking spaces should be retained.

# TASKS IDENTIFIED - Focus Areas

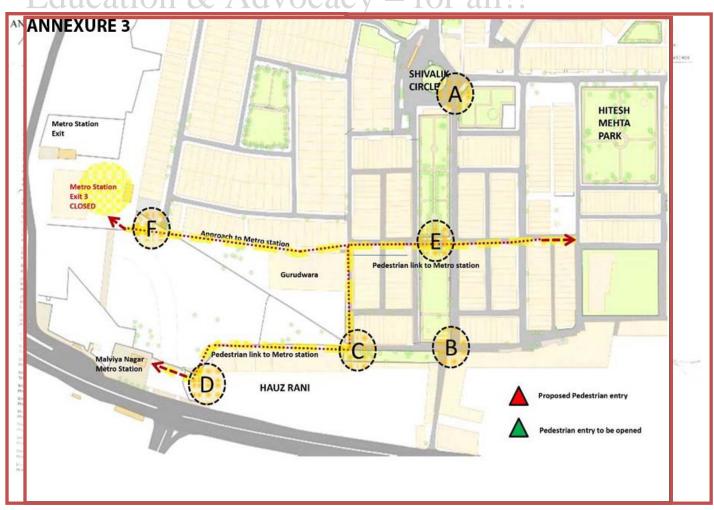


malviya nagar, hauz rani, khirki extension, sheikh sarai, chirag dilli मालवीय नगर, हौज़ रानी, खिरकी एक्सटेंशन, शिएख सराय, चिराग दिल्ली DOM PARK PHESS ENCLAVE NOAD चिराग दिल्ली CHIRAG DILLI पार्क के किनारे ALONG THE PARK कृष्णा अंदिर KRISHNA MANDIR मालवीय नगर मेट्रो स्टेशन MALVIYA NAGAR METRO STATION मालवीय नगर गोल चक्कर MALVIYA NAGAR ROUNDABOUT एपीजे जंक्शन APEEJAY JUNCTION

L TO ACTION

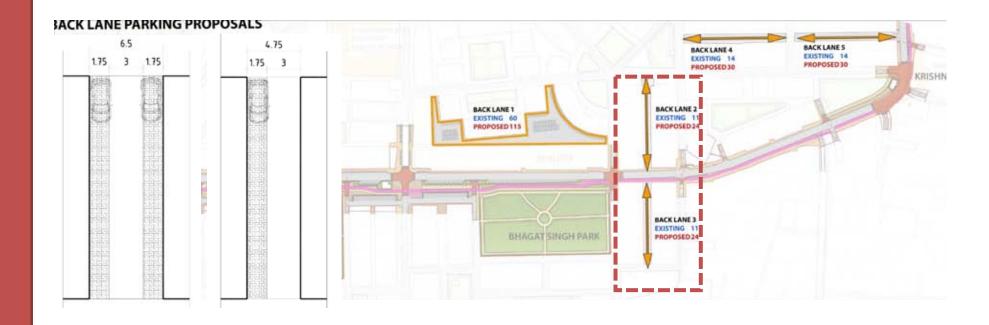
# TASKS IDENTIFIED - Our Role

- Technical Support & Liaison for residents
- Strategies for Testing & Piloting for government
- Education & Advocacy for all!!



### TASKS IDENTIFIED - Our Role

- Technical Support & Liaison for residents
- Strategies for Testing & Piloting for government
- Education & Advocacy for all!!
- Incorporation of recent UTTIPEC Parking Policy into implementation plan of AAPKI SADAK
- Parking Benefit Districts (PBD) might be applied to the PARKS STRETCH.
   Salient Features as per Policy are:
- ULB is responsible for implementation: **SDMC**
- Use of PPP recommended to arrive at viable solutions
- Primarily on 'Mix-Use Spines'
- Short term (upto 3 hrs) and Long Term (daily / monthly charging) parking zones.
- Dynamic pricing to be adopted
- RWA participation should be sought
- Schools have to be made accountable
- Off-street parking favored to On-Street Parking
- Public realm to be prioritised in favour of pedestrians, commercial activity, vendors and IPT spaces





# TASKS IDENTIFIED - Our Role

- Technical Support & Liaison for residents
- Strategies for Testing & Piloting for government
- Education & Advocacy for all!!

# CALL TO ACTION

# TASKS IDENTIFIED - Support Sought

SHEILA DIKSHIT



GOVT. OF NATIONAL CAPITAL TERRITORY OF DELHI DELHI SECRETARIAT, 1.P. ESTATE, NEW DELHI-110113 PHONE: 23392029, 23392030 FAX: 23392111

0.0 No.: 05 pcmil/ 161

#### MESSAGE

I am pleased to learn that Aapki Sadak Project is being launched with an aim to make neighbourhood roads smooth & motorable.

When professional experts and citizens work together to propose practical solutions for improving their neighbourhood streets, our efforts are strengthened and we know your priorities. With your cooperative commitment as resident communities and your desire to lead the change we, as your government, will surely be able to do.a more satisfactory job. This is the spirit of Bhagidari at work.

As our city continues to grow and develop, it faces new challenges. We have to find answers to the growing congestion of our streets, the renewed threat of air and noise pollution due to the needs of transportation, and growing sense of insecurity for our children, women and the elderly. We, at the policy and governmental level, are improving, expanding network and making it safer and more comfortable.

I would like to see that the Aapki Sadak Project shows the way. Please count on my support for your success.



Phula Dilline

(SHEILA DIKSHIT)



#### DELHI DEVELOPMENT AUTHORITY UNIFIED TRAFFIC & TRANSPORTATION INFRASTRUCTURE (PLG. & ENGG.)CENTRE

2nd Floor, Vikas Minar, New Delhi Phone No. 23379042, Telefax : 23379931 E-mail:diruttipec@gmail.com

No. F.1.(2)2013/UTTIPEC/42<sup>rd</sup> D-110

Dated:8.5.13

MINUTES OF THE 42<sup>nd</sup> UTTIPEC GOVERNING BODY MEETING, HELD ON 5.4.13 at 10.15 A. M. UNDER THE CHAIRMANSHIP OF THE HON'BLE LT. GOVERNOR OF DELHI.

- 3. Brief report on projects/proposals discussed in Working Group/ MAG(Transport) Meetings
- A conceptual proposal for First and Last Mile Connectivity project –(Khirki/Malviya Nagar)- A Community Initiative.

Shakti Sustainable Energy Foundation vide letter dated 1.2.2013 to UTTIPEC had mentioned that they are supporting project "Alternative Mobility Solutions and Pedestrianization in Existing Neighbourhoods" in the residential area stretching between Malviya Nagar metro station and the BRT Corridor. This project is being led by Ar. Ashok B.Lall with the partnership of innovative Transport Solutions, Oasis Design incorporated and Sandeep Gandhi Architects.

This project has identified and provided solutions with conceptual proposal for retrofitting of roads, optimum use of parking spaces and circulation system to create safe movement corridors for pedestrians and NMTs in consultation with various stakeholders and community. However, the group proposes to engage with government and transportation system stakeholders so that the proposals are aligned with various policies and programmes of the Government.

The conceptual proposal/plan was presented in the meeting by Ar. Ashok Lall for consideration of the Governing Body.

#### Decision

Hon'ble LG appreciated the initiative taken by Ar. Lall in association with other professional partners to showcase a community based Eco-Mobility project and also noted that the proposal has been discussed with the Commr. of SDMC the main stakeholder. Honb'le LG desired that the project be further discussed with all stakeholders like, SDMC, DDA, DMRC, PWD, Traffic Police and local residents/RWA's in the concerned Working Group of UTTIPEC for finalization and implementation of this first community based/supported project.

Action - All Stakeholders, UTTIPEC

The meeting ended with vote of thanks to the Chair.

Sd/

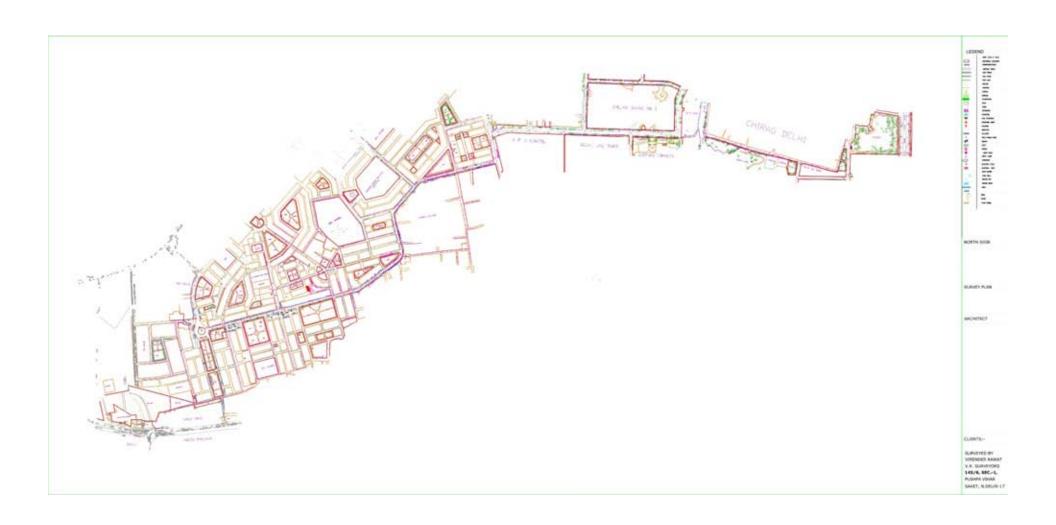
(Ashok Bhattacharjee) Director (Plg.)/ Member Secretary, UTTIPEC

# THANK YOU



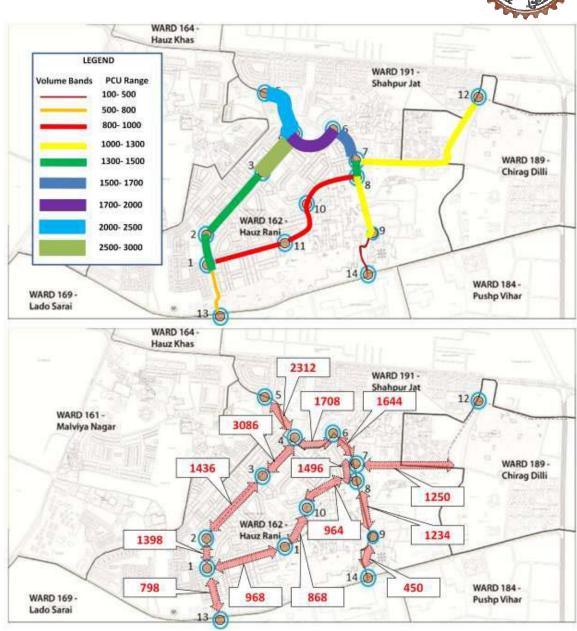


# TOPOGRAPHIC SURVEY





### TRAFFIC SURVEYS





# PHOTOGRAPHIC SURVEYS







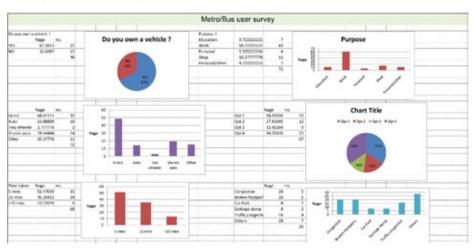


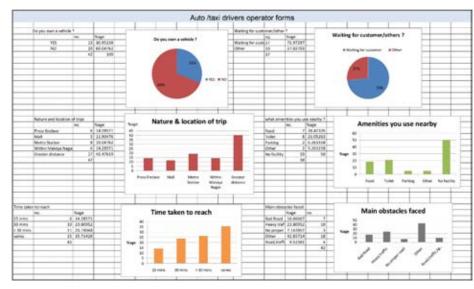


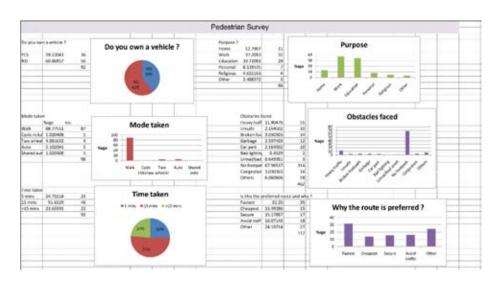




## **USER SURVEYS**











# PARKING COUNTS



















# 🧥 🖪 🤣 🤀 🏗 आपकी सड़क !!

#### Malviya Nagar's **Central Public Space!** मालवीय नगर का नया केंद्रीय सार्वजनिक स्थल

Shift unfavourable activities like bus terminus, auto repair shops, cranes, to a more favorable location. बस टर्मिनस,गाडी की मरम्मत की दुकानें, क्रेन पार्किंग जैसी प्रतिकूल गतिविधियों को अतिरिक्त स्थान प्रदान किये जायेंगे

Retain the toilets, shops, eateries, temple, auto stand, and improve access to them शौचालय, ढाबों, दुकानों और मंदिर तक पहुँचने के लिए निरंतर पैदल रास्ते









"the road should be like one where there is some separate space for cars and separate space for cycles (to go between DDA park and home, shops, temples, etc. because we can't play in our neighbourhood park, as people complain!) "

"लोगों की शिकायत की वजह से हम अपने पड़ोस के पार्क में नहीं खेल सकते हैं क्योंकि कारों और साइकिल के लिए अलग जगह नहीं है (डीडीए पार्क और घर के बीच जाने के लिए, दुकानों, मंदिरों, आदि के लिए अलग रास्ता होना चाहिए) "





















# 🎇 🙆 आपकी सड़क !!

#### Create dedicated pedestrian paths सड़क के किनारे अभिहित पैदलपथ

Create separate rickshaw path that does not interfere with other traffic flow.

रिक्शा के लिए अभिहित रास्ते तैयार किये जायेंगे, जिससे बाकी के ट्रैफिक को किसी किसम की अस्विधा ना हो

#### Organise area for street vendors सड़क पर रेधिवालों और विक्रेताओं के लिए

अभिहित स्थान











"because there is too much traffic on the main road (Krishna Mandir - Shivalik roundabout) we walk through internal streets to our tuition centre near the Gurudwara...but some parts are very dirty along that route and only some lights coming from a few houses, no street lights "

" कृष्णा मंदिर-गोल चक्कर सड़क पर इतना ट्रैफिक होता है, ट्युशन जाने के लिए अन्दर ग्रद्वारे वाली गली में से जाना पड़ता. लेकिन वहां गली इतनी गन्दी है और कोई लाइट भी नहीं है, सिर्फ घरों के अन्दर से कुछ राशनी आती है। "

















Efficient organisation of Auto, Rickshaw, and Vendor spaces, to create enjoyable, congestion-free Mandir area

भीड़ से मुक्त मंदिर क्षेत्र बनाने के लिए, ऑटो, रिक्शा, और विक्रेताओं को संगठित स्थान प्रदान किये जायेंगे

#### Convenient & continuous pedestrian access to Mandir & shops

मंदिर और दुकानों के लिए सुविधाजनक निरंतर पैदल पथ

Organisation of parking space and shifting of unwanted cars for improved flow of traffic and pedestrian movement

यातायात और पैदल यात्रिओं के बेहतर प्रवाह के लिए अवांछित कारों और पार्किंग के अतिरिक्त स्थान प्रदान किये जायेंगे









इस रोड पर यातायात की बहत समस्या है। कष्णा मंदिर से भगत सिंह पार्क तक आने में दस-पंद्रह मिनट लग जाते हैं। गाड़ी में भी













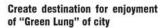






#### Integrate government plan for Proposed Relief Road and make it pedestrian and cycle friendly

गवर्नमेंट के प्रस्तावित सड़क के प्लेन को ध्यान में रखते हुए, सड़क को धीमा और पार करने वालों के लिए सुरक्षित बनाना है



शहर के एक महत्वपूर्ण हरित क्षेत्र को फिर हरा-भरा बनाकर, निवासियों के लिए एक मजेदार जगह का निर्माण करना है

Design of wider bridge for connecting to Chirag Dilli, rather than existing

चिराग दिल्ली से साइकिल और पैदल आने-जाने के लिए चौढ़ा पूल









"this area used to be much greener. Now it is only garbage. Also, the connecting bridge from the other side is too narrow and dangerous as bikes also cross over"

"पहले यहाँ बह्त हरयाली होती थी। अब सिर्फ कूड़ा है। उस तरफ (चिराग दिल्ली) से आने का पुल बह्त पतला और खतरनाक है। उसपर लोग मोटरसाइकिल भी चला लेते हैं"











2006





