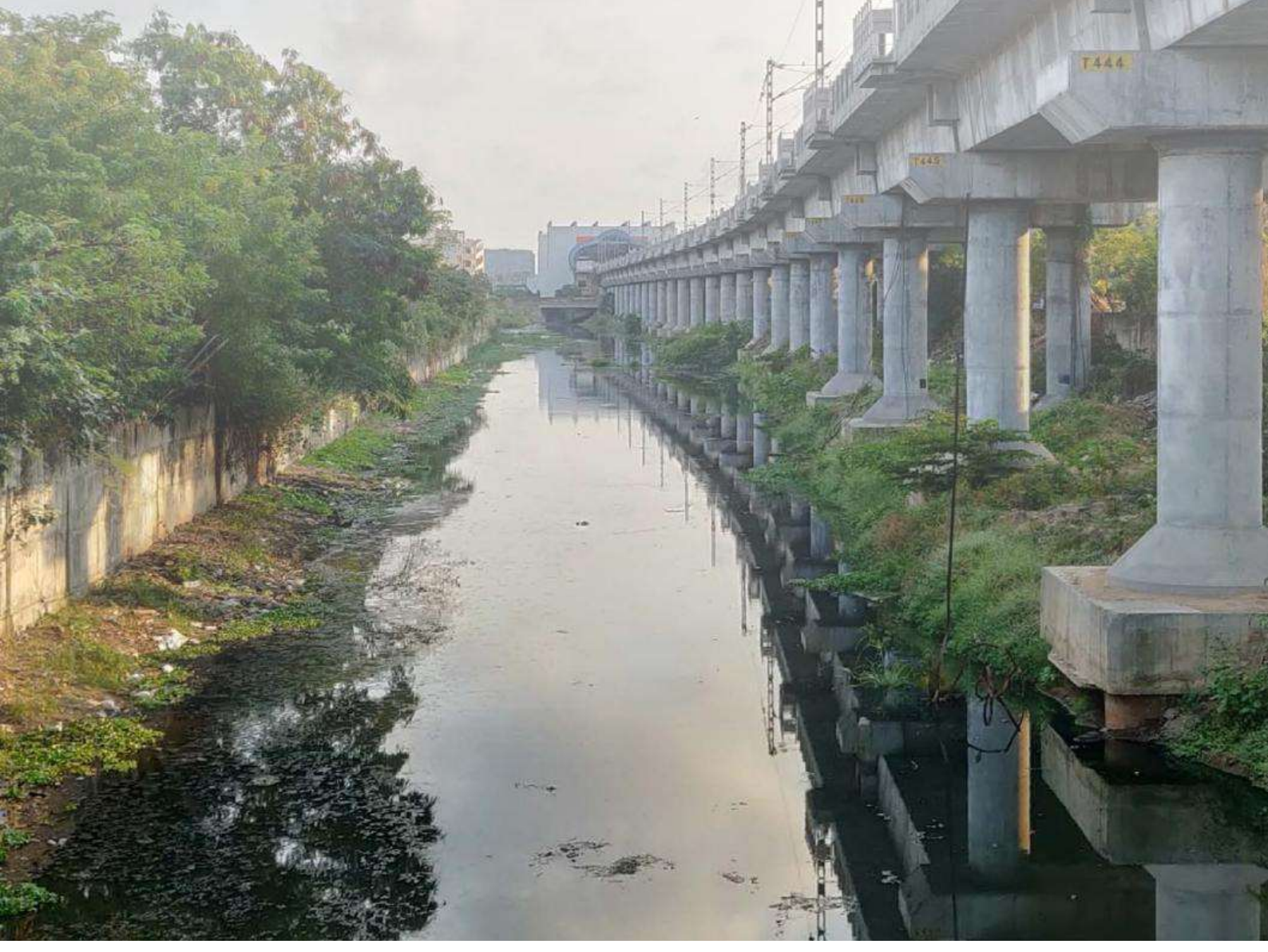




PARTICIPATORY APPROACH FOR REIMAGINING CHENNAI'S BUCKINGHAM CANAL INTO A LIVEABLE SPACE AND A MODEL FOR CLIMATE-PROOF URBAN DEVELOPMENT

*Project Completion Report for Phase 2
Submitted: April 2019*

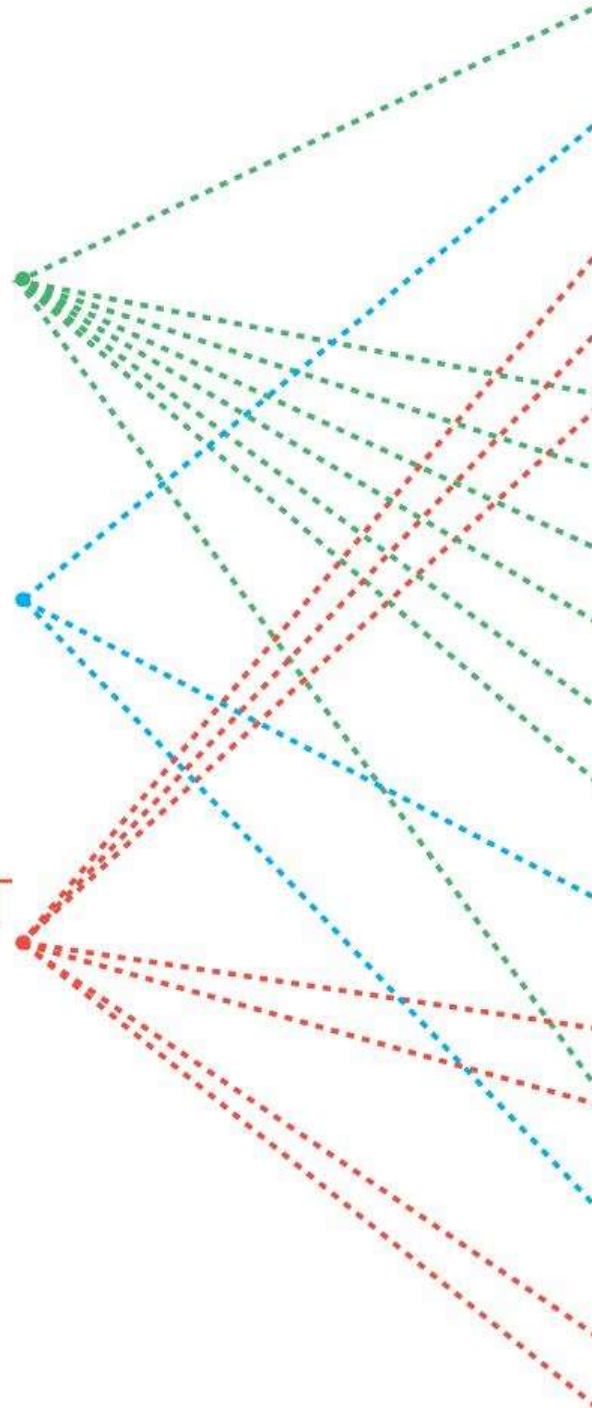


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STAKEHOLDER ENGAGEMENT
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1

INTRODUCTION

The Buckingham Canal is a manmade, saltwater, navigation canal that runs parallel to the Coromandel Coast in the north-south direction. It was built in phases from 1800 till 1882 and measures approximately 800 km in length from Vijayawada to Marakkanam. Within the Chennai metropolitan area, the canal connects the three rivers - Kosasthalaiyar, Cooum, and Adyar - that cut across Chennai. Though primarily constructed to transport goods from Vijayawada to Madras, the canal also helps manage floodwaters. Archival photographs show the canal to be an idyllic setting with lush green edges and wooden catamarans cruising its course. Today, however, the canal is faced with severe pollution woes with untreated sewage and solid waste finding their way into its waters. The numerous encroachments too have severely compromised its width and carrying capacity over long stretches within the Chennai Metropolitan area. Over the years, various governmental agencies have struggled to revive the canal but continue to do so even to this date. In light of this situation, EYES ON THE CANAL is an initiative focused on reimagining the Buckingham Canal in Chennai as part of the Cities Fit for Climate Change project.

EYES ON THE CANAL is an exercise in participatory planning to make the canal a livable place for the residents of Chennai. The initiative involves various activities such as awareness walks, community engagement meetings and an open-ideas competition to generate interest and ownership for the canal which has suffered from our collective abandonment.

Cities Fit for Climate Change is a global project implemented by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on behalf of the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) and its International Climate Initiative (IKI). The selected cities – Chennai in India, Santiago in Chile and Durban (eThekweni) in South Africa – are supported in developing their climate-sensitive strategies and their own sources of financing.

Implemented by



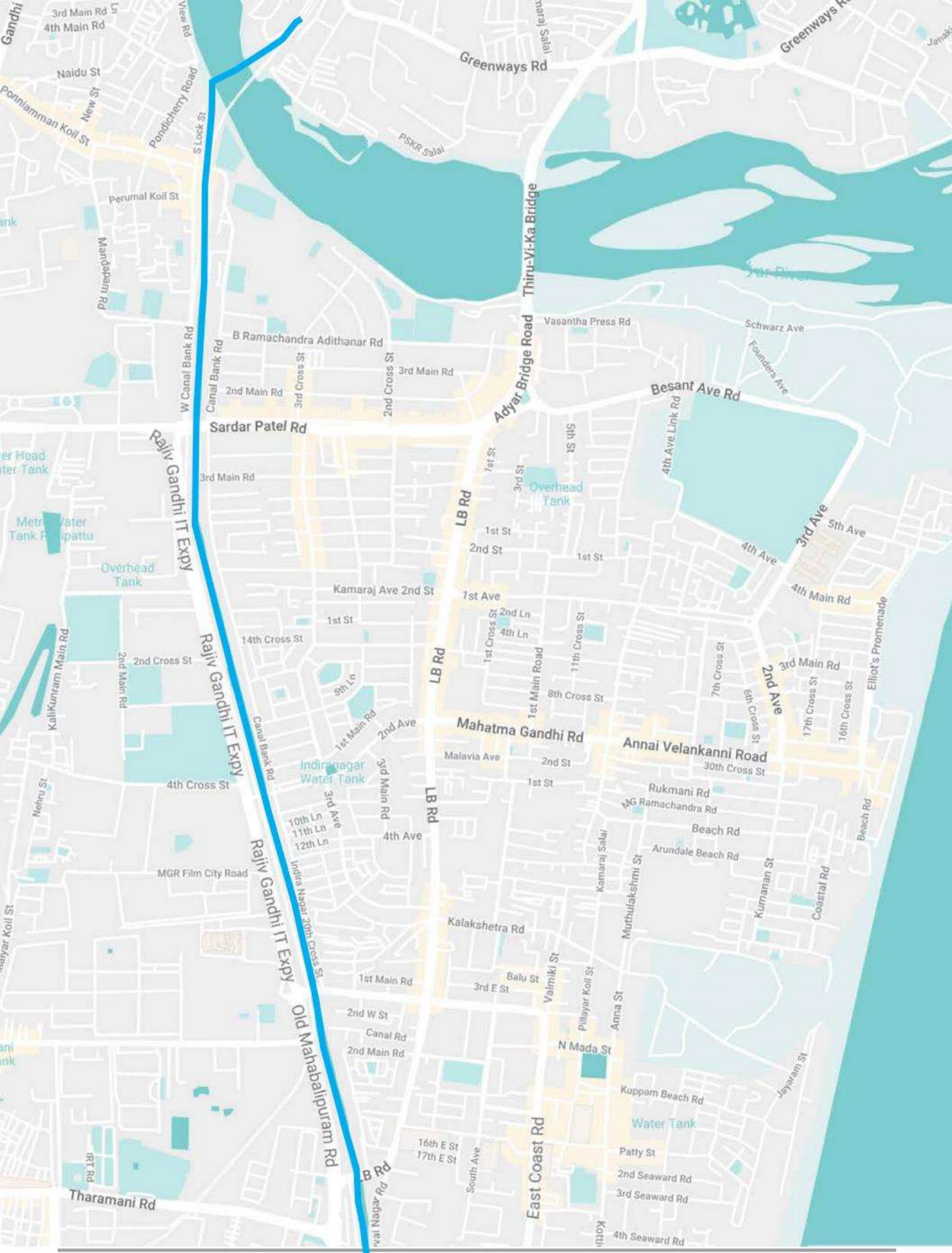
On behalf of



Partner Organization



This project is in coordination with the Greater Chennai Corporation.



2

TIMELINE OF EVENTS

PUBLIC OUTREACH TO TO GENERATE INTEREST AND OWNERSHIP FOR THE CANAL

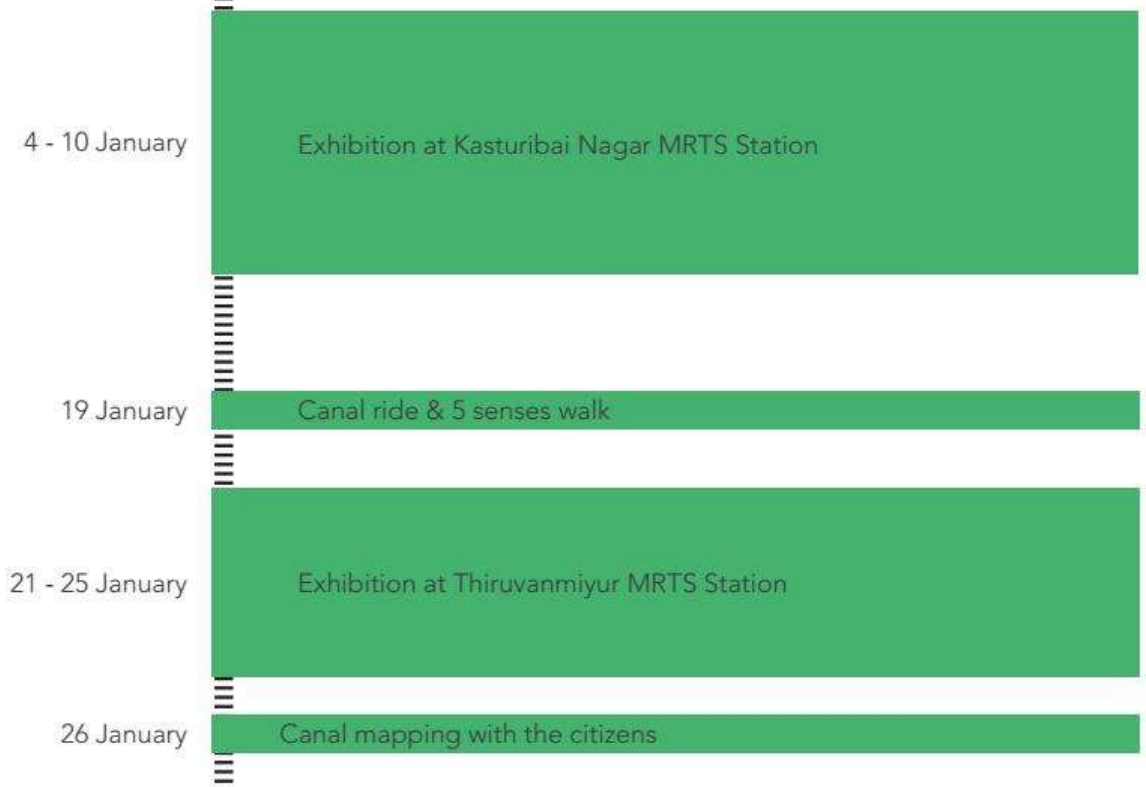
DEVELOPMENT OF WINNING PROPOSALS TO REIMAGINE THE CANAL

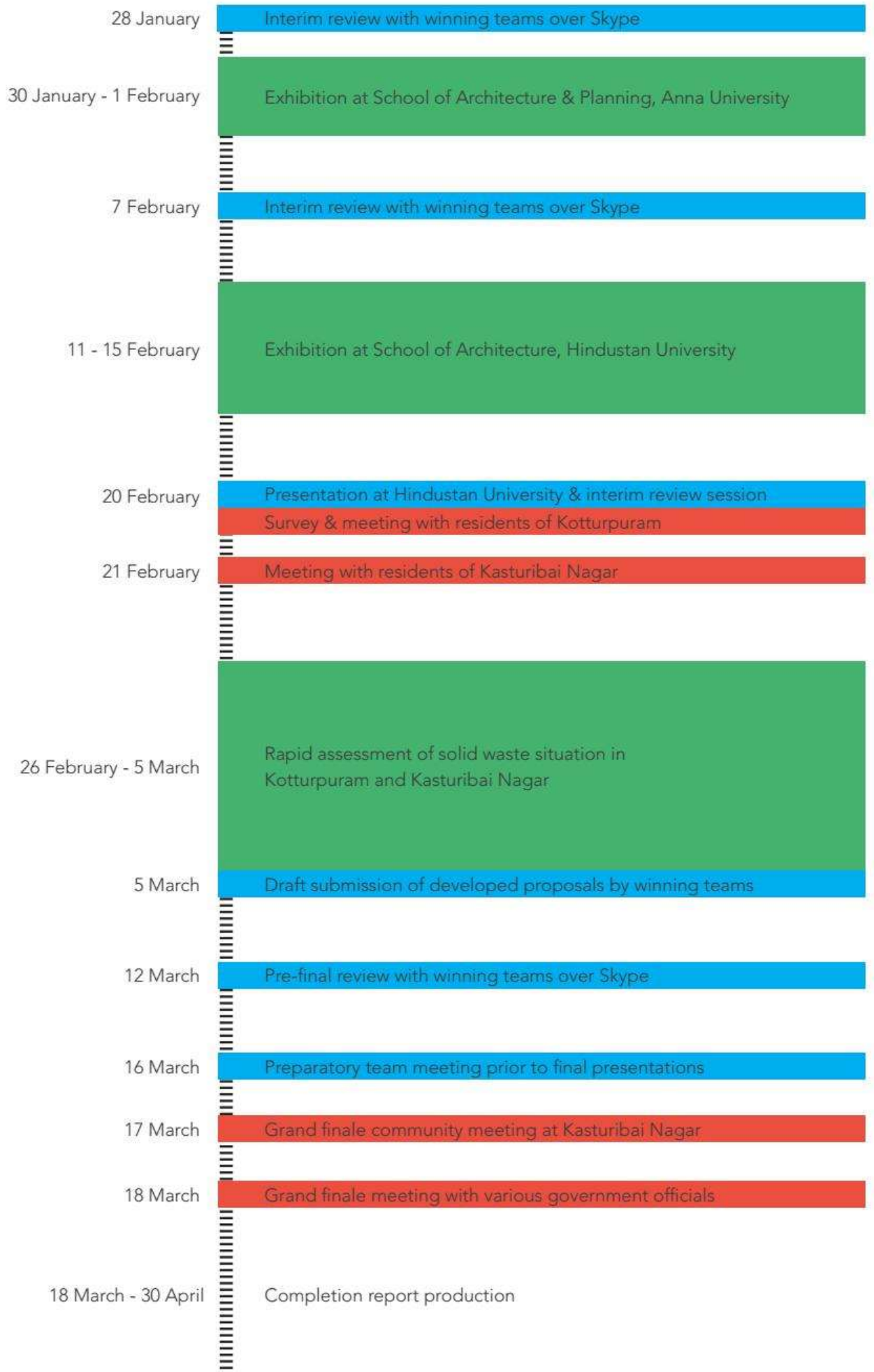
STAKEHOLDER ENGAGEMENT ALIGNED WITH A PARTICIPATORY APPROACH TO REVIVE THE CANAL

2018



2019





3

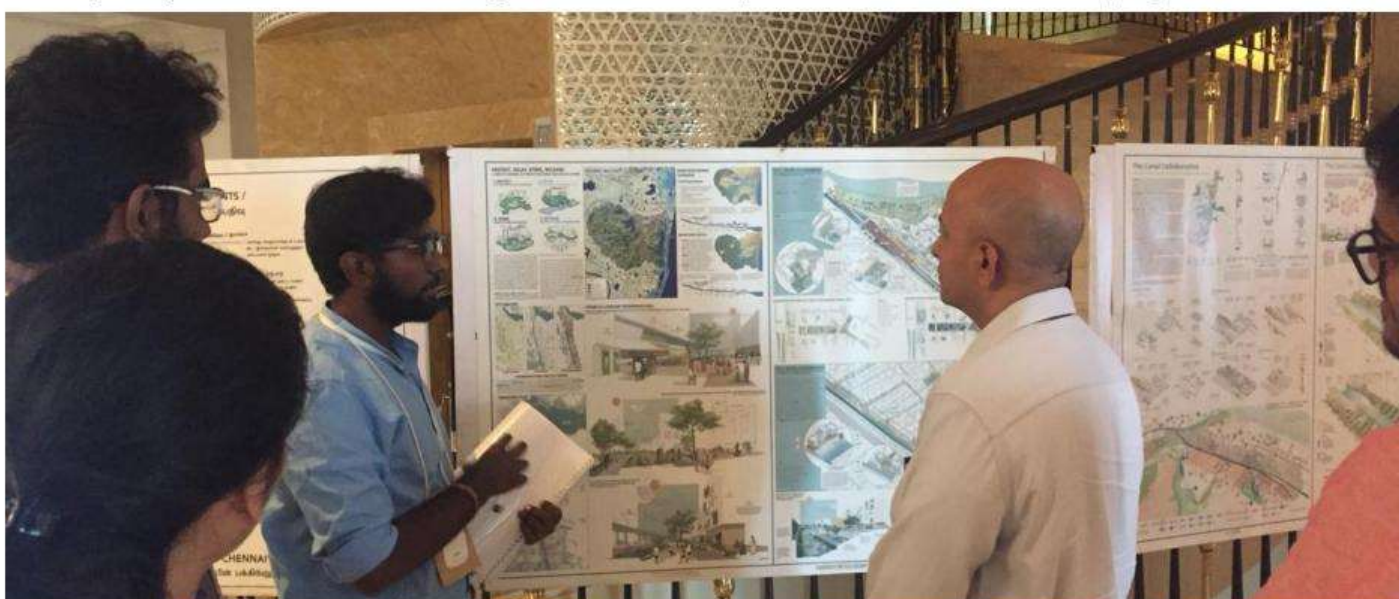
REIMAGINING INCLUSIVE CITIES' CONFERENCE ORGANIZED BY GIZ IN CHENNAI

16th & 17th November 2018 - Leela Palace Hotel, Chennai

Following the announcement of the winners of the open- ideas competition to Reimagine Chennai's Buckingham Canal, a conference titled 'Reimagining Inclusive Cities' was organized by GIZ India at the Leela Palace Hotel in Chennai. This became a first opportunity for the winning teams to exhibit and present their ideas for the Buckingham Canal to various government stakeholders who attended the GIZ conference. Delegates included mayors and government department representatives from various cities where GIZ is engaged in across India such as Kochi, Bhubaneswar, Delhi, Coimbatore and Chennai.



Abinaya Rajavelu from Urban Design Collective in a press interview about the project.



Winning teams explaining their ideas to Mr. Raj Cherubal, CEO, Chennai Smart City Limited.



Winning teams explaining their ideas to Ms. Soumini Jain, Mayor of Kochi.

4

PROJECT INITIATION AND MEETING WITH LOCAL EXPERTS

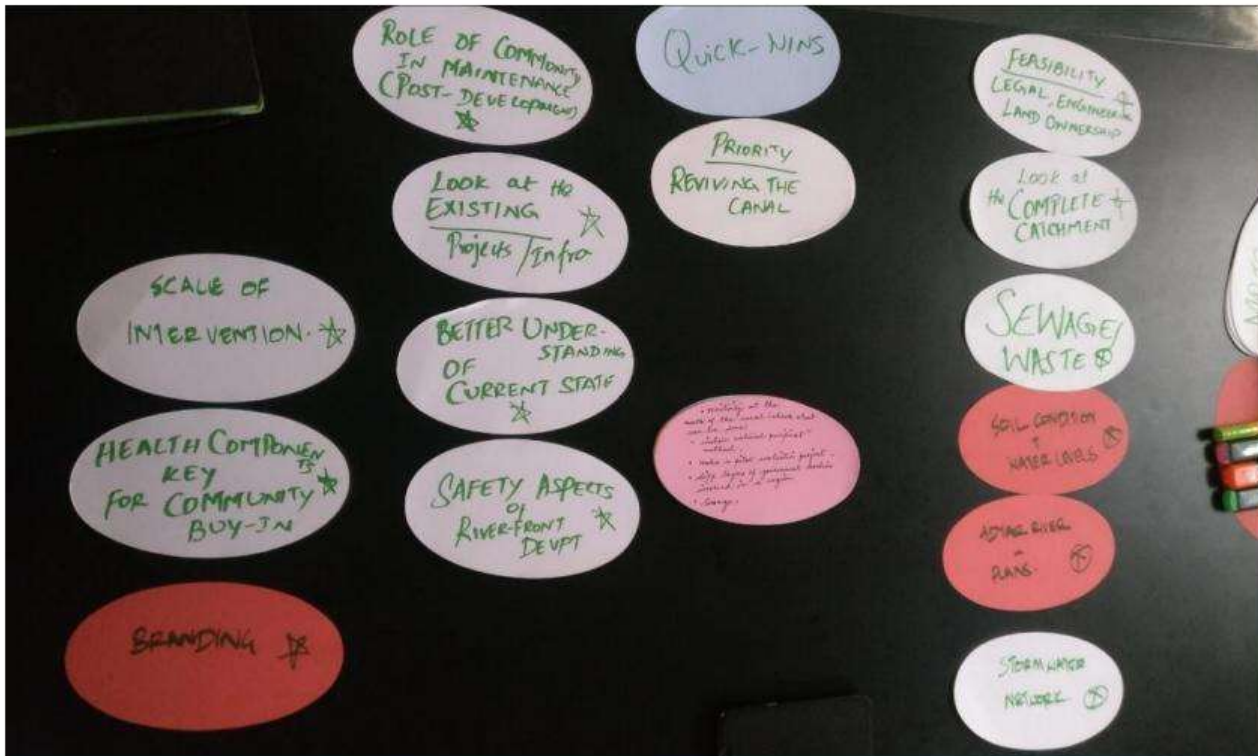
29th November 2018 - IIT Madras Campus, Chennai

1st December 2018 - Rain Centre, Adyar, Chennai

To kick-start the detailed design development phase of the winning proposals, the three teams visited Chennai for an orientation which involved meeting various stakeholders. First of the series of engagements was a meeting organized at the IIT Madras Campus to present their concepts to experts from various disciplines - hydrology, ecology and environmental engineering. The discussions helped to evaluate the feasibility of their ideas, identify possible trajectories of explorations and their implications.



Following this meeting at IIT, a brainstorming session was conducted with the winning teams at the UDC office to ascertain a joint vision which would guide the three teams as they developed their proposals. It was agreed that all three proposals would be presented as parts of one comprehensive proposal to revive the Buckingham canal. This was important to ensure that there would not be any overlaps or contradictions as teams fleshed out their ideas into design proposals.



JOINT VISION STATEMENT FOR REVIVING CHENNAI'S BUCKINGHAM CANAL

- An effort to reinstate the canal as a public space for the residents of Chennai
- An effort to restore the canal's function as a flood mitigator
- An effort to revive the ecology of the canal holistically at the catchment level
- An effort to promote overall health of the citizens of Chennai
- An effort to be a model for a project that is collaborative in its process and inclusive in its ownership and responsibility
- An effort to be a model project for climate-proof urban development

On 1st December, UDC arranged a visit for the winning teams to the Rain Centre in Gandhinagar in order to understand the larger hydrology of the region and to gain insight into the dynamics of working with water in Chennai. They engaged in a group discussion with Sekhar Raghavan, a former physics professor popularly known as the "Rain Man" who has vast experience in rain water harvesting techniques. Mr. Raghavan has closely worked with the government of Tamil Nadu towards successful implementation of the rain water harvesting scheme. Mr. Raghavan encouraged the teams to study the Adyar basin in detail to get a full understanding of the water flows in the area, the soil conditions and to be aware of the changing water patterns accompanying the seasonal changes in the city.



Members from the winning teams with the Rain Man - Sekhar Raghavan

5

INTRODUCTORY MEETING WITH VARIOUS GOVERNMENT BODIES

30th November 2018 - Secretariat, Fort St. George, Chennai

A one-of-its-kind meeting transpired with government officials from various departments on 30th November 2018 at the Secretariat in Fort St. George Chennai. Key persons present at this meeting were the Secretary of the Public Works Department (PWD), Secretary of the Chennai River Restoration Trust (CRRT) and Deputy Commissioner of the Greater Chennai Corporation. Other officials and engineers were also present representing Southern Railway/ MRTS, Chennai Metro Water Supply and Sewerage Board (CMWSSB) and Greater Chennai Corporation (GCC).

The three winning teams presented their entries following which they engaged in a detailed conversation with them regarding the feasibility of absorbing the projects into the proposed government plans for the Buckingham Canal. The officials gave the teams constructive criticism and helped channel their ideas into the right direction to facilitate implementation of the ideas.



6

INTRODUCTORY MEETING WITH CORPORATE ENTITIES

30th November 2018 - Hotel Ramada, Chennai

Post the meeting with various government department stakeholders, an exhibition of all the 28 shortlisted entries including the 3 winning entries were displayed at an exhibition at hotel Ramada in Egmore. An open invite was extended to engineers of various government departments who had a stake in the restoration of the canal such as storm water drain, metro water & sewerage and parks. This engagement was meant to learn first hand from the engineers who have in-depth knowledge about the on-ground realities with regard to the canal while also bringing them up to speed with the specifics of the winning ideas and the core values of each proposal. The engineers helped identify possible sites for design development and implementation. They also played a crucial role in outlining the challenges with regard to data availability, collection and tailoring the design to fit it into the government proposals.

The session extended into a second round of engagement with representatives of Confederation of Indian Industries (CII) Chennai sector and civic organisations like Paperman. They helped the participants to understand the process of involving corporate organisations in civic projects. Simeon Joshua of CII also gave a brief talk on how to package larger visions into smaller projects in a way that would seem appealing for the procurement of Corporate Social Responsibility (CSR) funds from businesses who had offices situated along the Buckingham Canal.



7

INTRODUCTORY MEETING WITH THE COMMUNITY

1st December 2018 - Kasturibai Nagar Community Hall, Chennai

As a conclusion to the project kick off, a final round of engagement was conducted with residents from Adyar. The winning teams explained their ideas to the community and also engaged them in a group discussion to understand their issues and needs. The meeting was helpful in determining the level of support and investment from the community for the canal as well as to identify key members in the community who would henceforth become our people's voice for the project.



Residents taking in the winning entries displayed at the community hall.



Group discussions with the residents and members of the winning teams.



One of the residents explaining the various issues pertaining to the canal and its surroundings.

8

EXHIBITION AT KASTURIBAI NAGAR MRTS STATION

4th to 10th January 2019 - Kasturibai Nagar MRTS Station, Chennai

The public venue exhibitions that were part of phase 1 of the Eyes on the Canal project were extended to phase 2 to increase engagement with general public and to spread the word about the plethora of ideas generated through the national level open-ideas competition.

A call for volunteers was put out with responsibilities that covered taking the visitors through the panels on display and seeking feedback while also documenting the level of engagement with the canal and the many ideas to revive it.



CALL FOR VOLUNTEERS

Responsibilities :

- Record visitor count at the venue.
- Explain the 'Eyes on the Canal' project and exhibition to visitors.
- Photo documentation during the exhibition.

Pay : Rs. 1000 per day

To register : <https://tinyurl.com/eotcvolunteer>
Minimum three day commitment required
Candidates must be fluent in English & Tamil

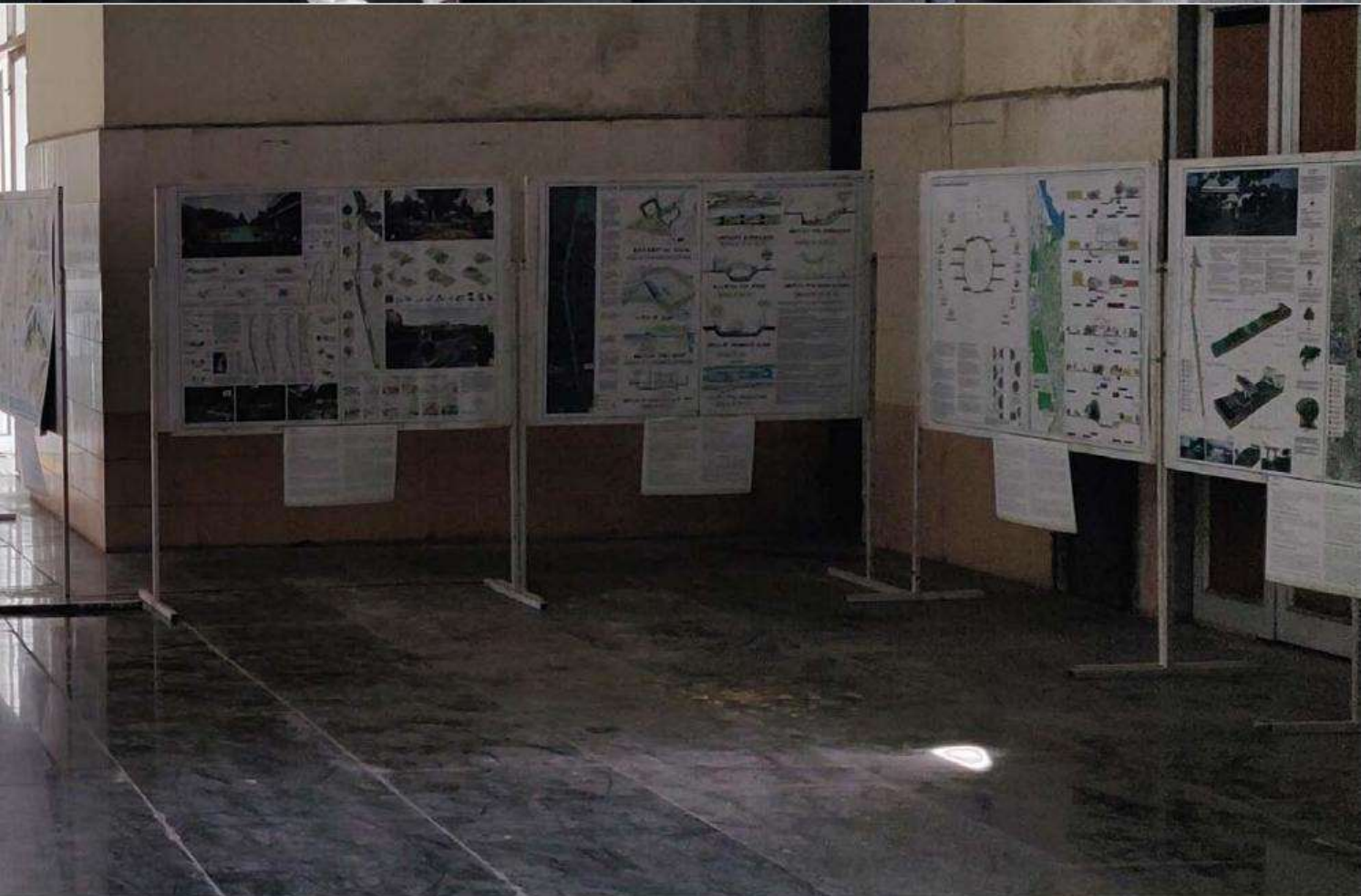
4th - 10th Jan 2019

Time : 10am to 6pm
Where : Kasturi Bai Nagar
MRTS Station

21st - 25th Jan 2019

Time : 10am to 6pm
Where : Thiruvanmiyur
MRTS Station









9

CANAL RIDE & 5 SENSES WALK

19th January 2019 - At site

In continuation of the public outreach initiatives from phase 1 of the project, another 5 Senses Walk was organised by UDC specifically targeted at the residents living along the canal in Adyar. This effort was also an off-shoot of the interest shown by the residents to engage with the canal during the introductory meet organized in December 2018. The walk was attended by a diverse group many of whom are members of the Kasturibai Nagar Resident Welfare Association.

The participants gathered at the Thiruvanmiyur MRTS station and were taken on an MRTS train ride to Kotturpuram MRTS station. The residents were able to observe the banks of the canal during the MRTS ride. Upon alighting at Kotturpuram, a five senses walk was conducted from Kotturpuram till the Kasturibai Nagar MRTS station during which residents actively observed and mapped the issues linked to the canal. En route, they engaged in discussions with various residents and shop-owners to understand their issues and needs. The walk concluded at Kasturibai Nagar MRTS station with a detailed discussion on the possibility to transform the underused spaces near the station into parks/play areas for children.



19th Jan 2019 - Saturday

CANAL RIDE & FIVE SENSES WALK

- MRTS ride along Buckingham canal from Thiruvanmiyur MRTS Station to Kotturpuram MRTS Station
- A five senses walk along Buckingham canal from Kotturpuram MRTS Station to Kasturibai Nagar MRTS Station
- Please carry your camera phone or your camera with you.

Time

4pm to 6pm

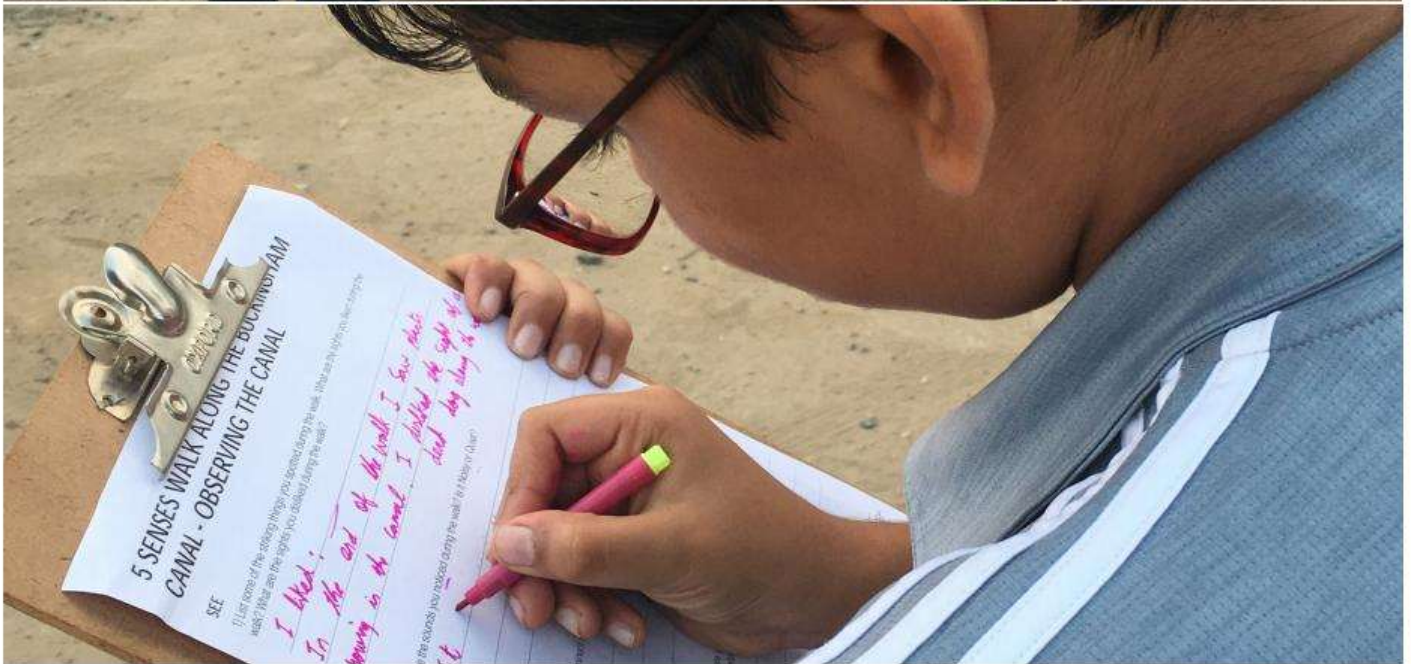
Starting point

Thiruvanmiyur
MRTS Station

Finishing point

Kasturibai Nagar
MRTS Station





10

EXHIBITION AT THIRUVANMIYUR MRTS STATION

21st to 25th January 2019 - Thiruvanmiyur MRTS Station, Chennai

Another edition of the public exhibition with all the shortlisted entries was on show at the Thiruvanmiyur MRTS station for a period of five days. Once again, the citizens living around the station and the commuters using the MRTS service had the opportunity to see all the different ideas to revive the canal. Volunteers present at the venue helped to translate and explain the proposals as well as the larger agenda of Eyes on the Canal project.

One of the winning teams, Blank Slate Studio, also conducted a visual preference poll at the exhibition to collect information with regard to their wants and needs of the canal. Visitors enthusiastically participated in the poll and the collected data was used to develop the team's design proposal.







11

CANAL MAPPING WITH THE CITIZENS

26th January 2019 - At site

On Republic Day, a mapping event was organized for the residents along the canal from Kasturibai Nagar MRTS station to the Kotturpuram MRTS station to map the following:

- Garbage dumping spots inside and adjacent to the canal.
- Illegal sewage outflow points into the canal.
- Vegetation ranging from small plants and bushes to trees along the stretch of the canal.

Participants of the mapping exercise were extremely enthusiastic and resourceful and identified a variety of plant species along with their uses/ medicinal benefits. The data mapped during this event was later digitized and circulated among the participants as well as the winning teams to be absorbed into their proposals wherever possible.



26th Jan 2019 - Saturday

CANAL RIDE & FIVE SENSES WALK

- Mapping of the sewage outfall points and garbage dumps along Buckingham canal
- Identifying areas/spots for community needs along Buckingham canal

No technical knowledge needed, only enthusiasm is required

Time

4pm to 6pm

Starting point

Kasturibai Nagar
MRTS Station

Finishing point

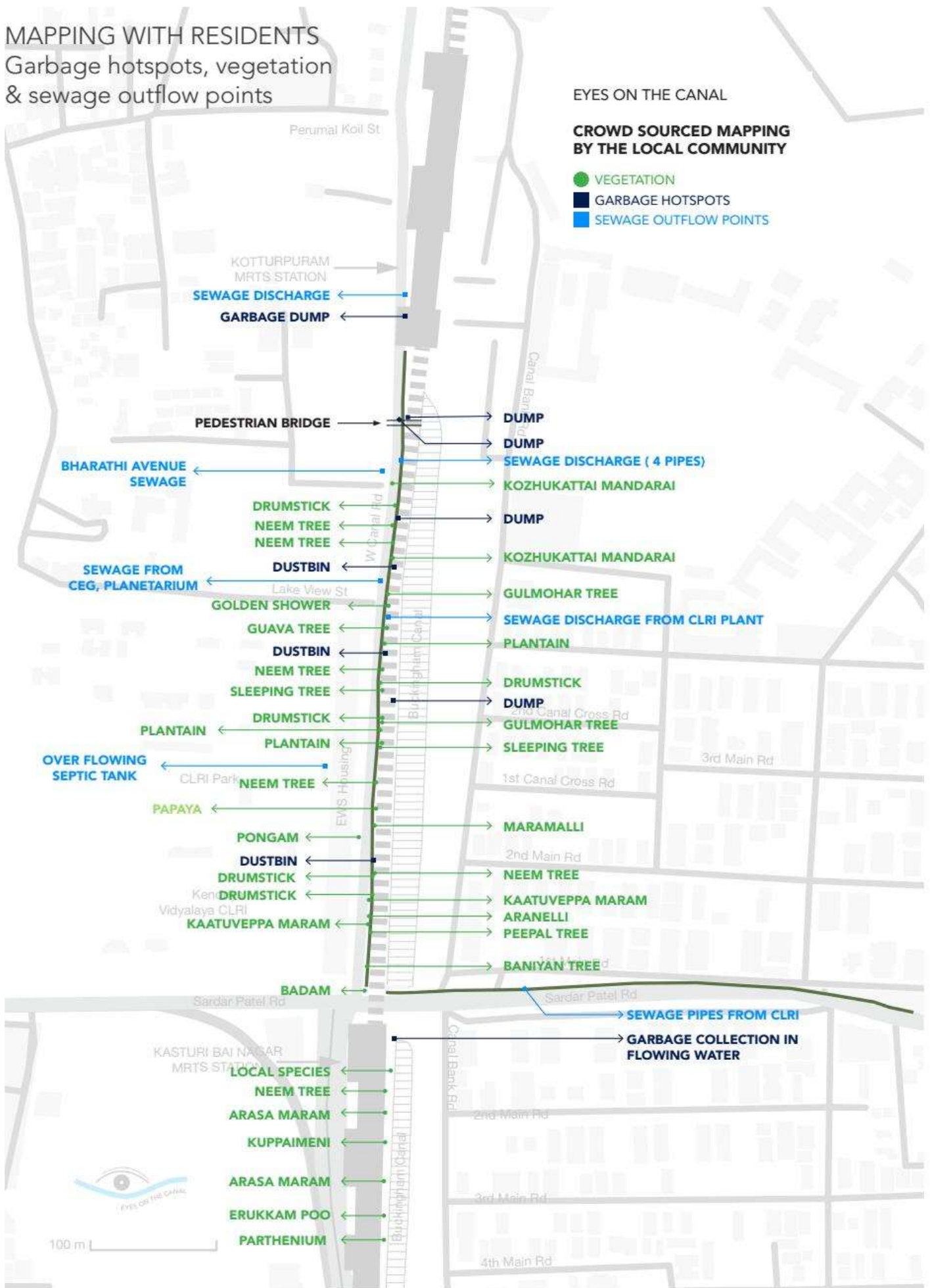
Kotturpuram
MRTS Station





MAPPING WITH RESIDENTS

Garbage hotspots, vegetation & sewage outflow points





Ashgourd growing on electric wires



Moringa tree



Calotropis Gigantea/ Erukkam Poo



Papaya tree



Oleander/ Arali



Stonebreaker/ Keezhanalli

12

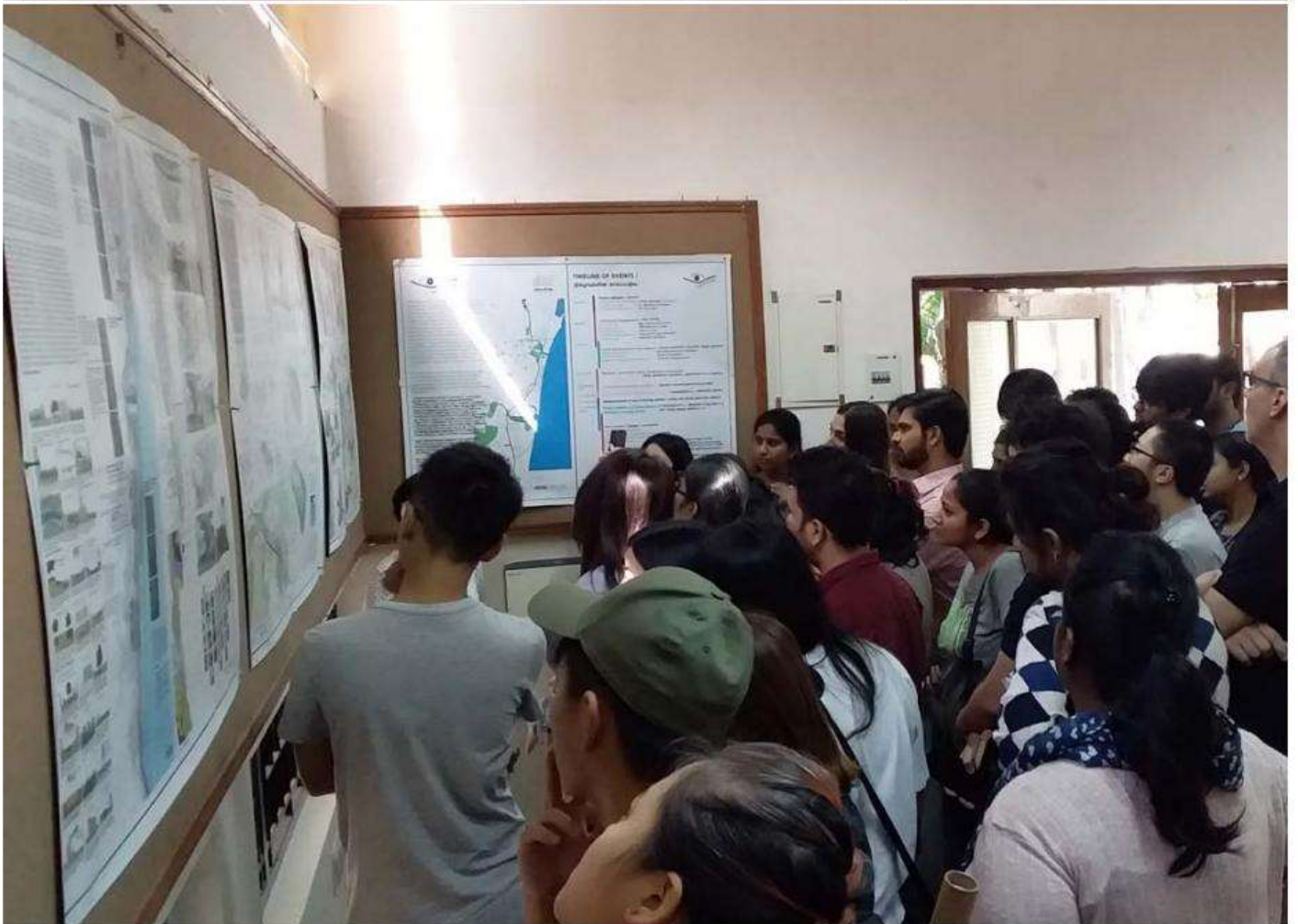
EXHIBITION AT SCHOOL OF ARCHITECTURE AND PLANNING, ANNA UNIVERSITY

30th January to 1st February 2019 - Anna University campus, Chennai

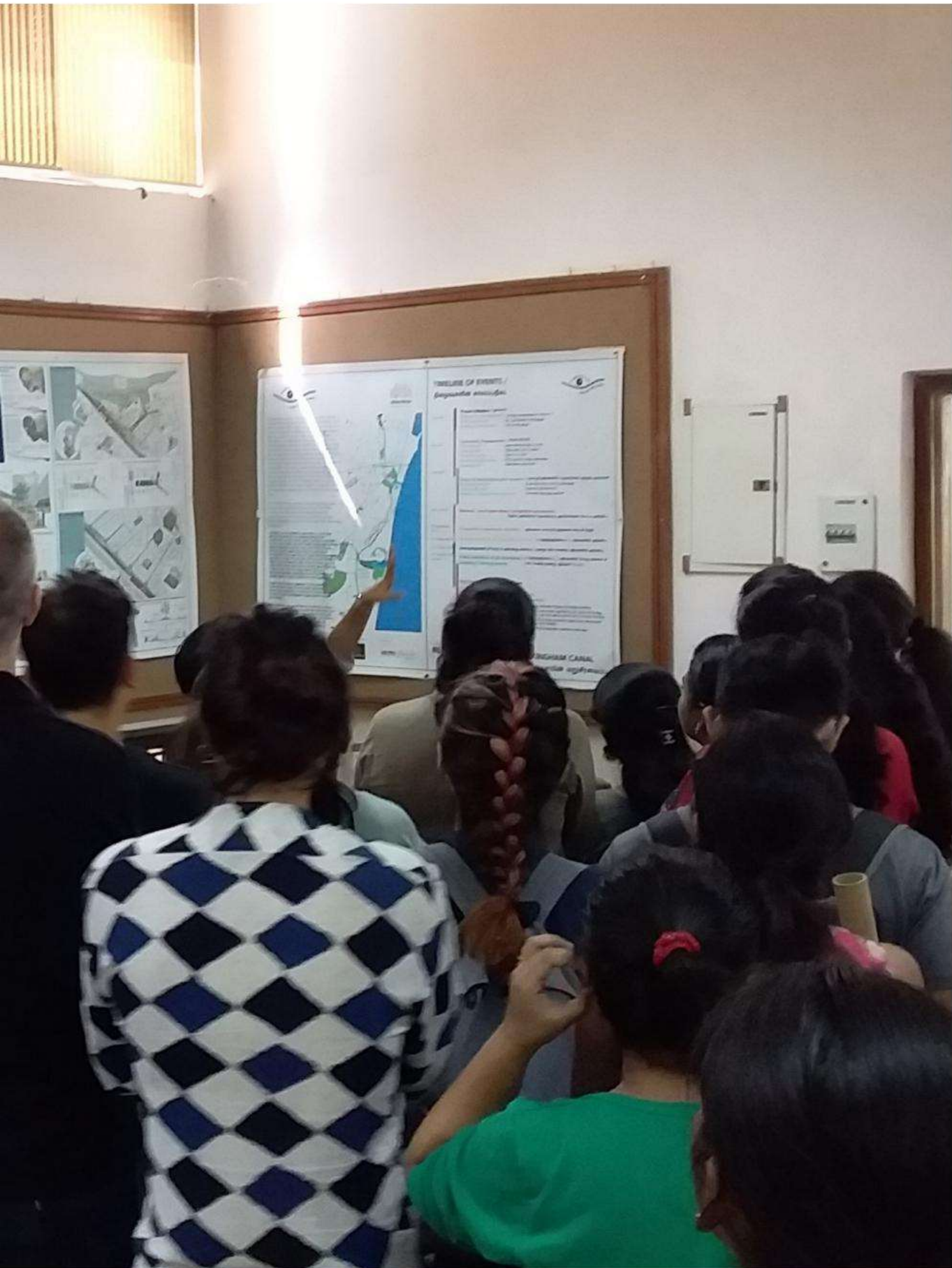
A third exhibition under phase 2 of the Eyes on the Canal project was organized for the students & faculty of School of Architecture and Planning at the Anna University campus in Guindy from 30th January to 1st February 2019. This period also coincided with a visit to the campus by students and faculty from the masters in urban design program at the National University of Singapore.

The context for NUS team's visit was their engagement with Chennai as a site for intervention as part of an initiative called Designing Resilience in Asia (DRIA). *'DRIA is an International Research Programme on urban and architecture resilience launched in 2014. The DRIA is a flagship initiative of the School of Design and Environment of the National University of Singapore that aims to promote and foster a substantive research and discussion about innovative ideas and propositions towards the resiliency of Asian cities responding to the environmental effects caused by climate change. The DRIA International Research Programme integrates research, education and capacity building efforts, and translates research into practice through specific urban and architectural design solutions and innovative building technologies.'*

The NUS faculty and students were keen on understanding the Eyes on the Canal initiative as a best practice example and therefore requested a presentation which was made by Vidhya Mohankumar from Urban Design Collective and K. Sudhakar from GIZ in the backdrop of the exhibition panels that were prepared by UDC for the Dialogue Forum held earlier in August 2018 in Chennai.







13

EXHIBITION AT SCHOOL OF ARCHITECTURE, HINDUSTAN UNIVERSITY

11th to 15th February 2019 - Hindustan University campus, Padur, Chennai

The last stop for the exhibition of the shortlisted and winning entries was organized for the students and faculty at the School of Architecture at Hindustan University campus in Padur, Chennai.

This was pertinent because the urban design studio faculty here opted to use the design brief for the open-ideas competition that was launched previously for Eyes on the Canal for their studio which transpired between June to November 2018. In December 2018, Vidhya Mohankumar of Urban Design Collective was also invited as a jury member to review the proposals generated through this studio. Bringing the exhibition of shortlisted and winning entries to the college enabled the students and faculty to see what other minds across the country came up with for reimagining the Buckingham Canal.



14

PRESENTATION AT HINDUSTAN UNIVERSITY & INTERIM REVIEW SESSIONS

20th February 2019 - Hindustan University campus, Padur & UDC Office, Adyar

An interim review session with the winning teams was scheduled on 20-21 February 2019 to review progress made and check if all 3 proposals were aligned to the larger vision for reviving the canal that was jointly agreed on during their project kick-off visit earlier in December 2018.

The interim review session began with the three winning teams presenting their proposals at the School of Architecture at Hindustan University. Because this followed closely on the heels of the exhibition of shortlisted and winning entries that had just concluded here, the students and faculty were excited to hear firsthand from the teams about the array of ideas and the process of developing a concept into detailed projects.

Following this session, discussions continued at the UDC office between the teams, UDC and GIZ on how to calibrate the proposals towards making them attractive for all stakeholders to push for implementation.







15

SURVEY & MEETING WITH RESIDENTS OF KOTTURPURAM

20th February 2019 - At site

As part of the interim review, the teams from Blank Slate and Studio POD requested to meet residents along the stretch to evaluate their proposals. This was organized in two parts- for the residents of Kotturpuram the teams were taken on a walk along the stretch and introduced to key persons with whom UDC had established contacts with over the course of the project. Studio POD presented their project to interested residents and Blank Slate conducted interactive surveys to ascertain the types of space desired by the residents of the area. People of all age groups actively took part in these interactions.







16

MEETING WITH RESIDENTS OF KASTURIBAI NAGAR

21st February 2019 - UDC Office, Adyar

Following the street-talking session with residents of Kotturpuram, a meeting with the residents of Kasturibai Nagar was conducted at the UDC office. Similar to the Kotturpuram engagement, this meeting also brought the residents up to speed with the progress on proposals by the respective team members. It was attended by many residents who had previously also participated in earlier discussions as well as the canal walk and mapping exercise. Residents shared their opinions on each entry and also shared their aspirations for their neighbourhood and the canal that flows through it. Blank Slate also repeated the interactive surveys with these residents as they did with Kotturpuram residents. Both interactions aligned well with the participatory nature of the Eyes on the Canal project.







17

COLLABORATIVE RAPID ASSESSMENT OF SOLID WASTE ISSUES

26th February to 5th March 2019 - At site

As a special effort under the Eyes on the Canal project, Urban Design Collective worked with the residents of Kasturibai Nagar and Kotturpuram to conduct a rapid assessment of the solid waste issues in these areas.

A detailed mapping of solid waste dump spots along the entire stretch of the canal from Kotturpuram MRTS station to Thiruvanmiyur MRTS station was carried out. Household interviews and group discussions with residents of Kotturpuram were conducted to understand the various issues faced by the residents due to the improper waste disposal along the canal. This was followed by a detailed group discussion with resident representatives of Kasturibai Nagar at the UDC office to ascertain their concerns, ideas and various existing initiatives with respect to solid waste management. The findings were compiled into a Rapid Assessment Report On Solid Waste Management which can be accessed online at this [link](#).

GIZ's K.Sudhakar shared this report with relevant officials at the Greater Chennai Corporation to initiate action planning conversations with them.

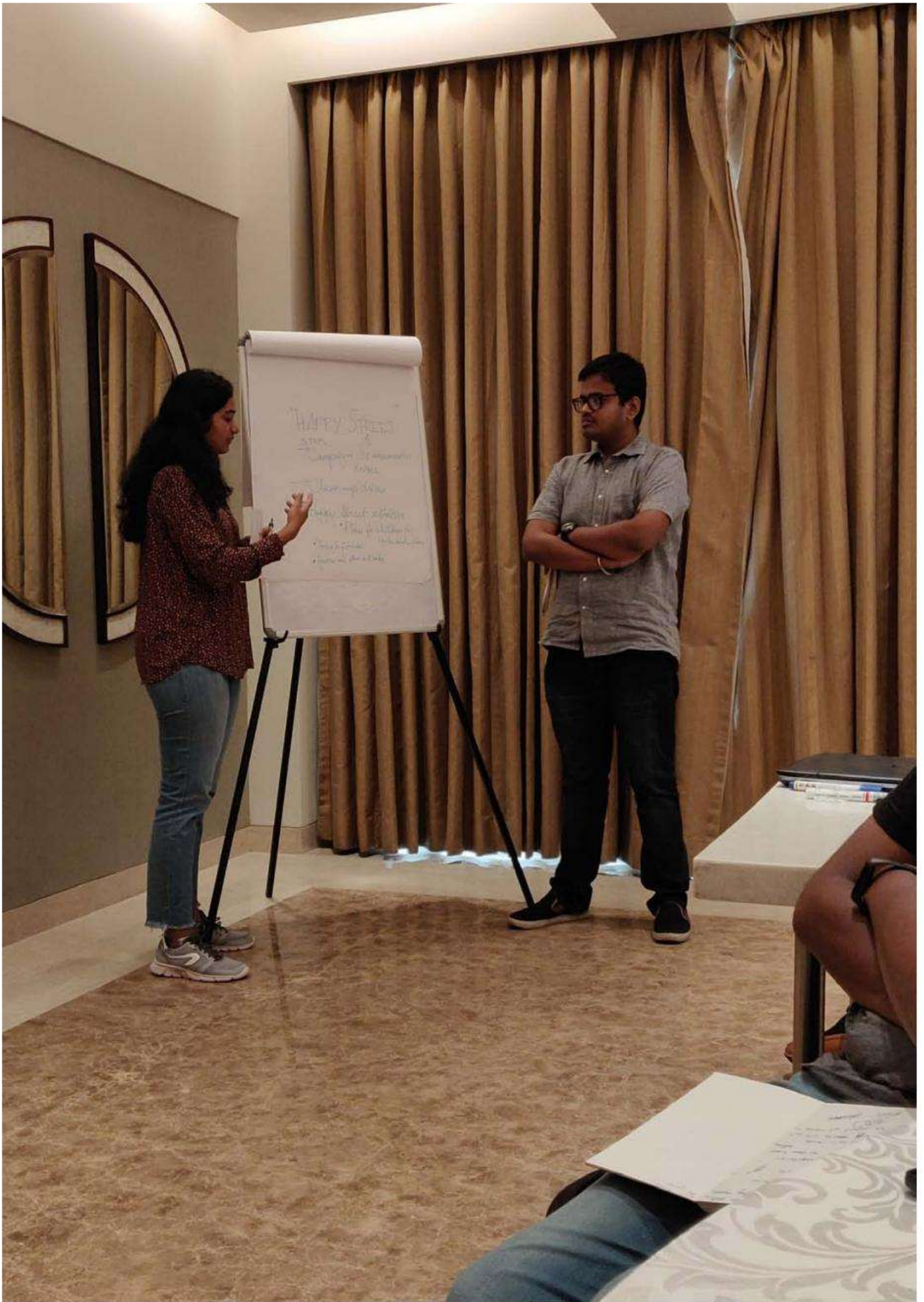


18

PREPARATORY TEAM MEETING PRIOR TO FINAL PRESENTATIONS

16th March 2019 - Hotel Raintree, St. Mary's Road, Chennai

In preparation for the final round of presentations to all stakeholders, a session was organized by GIZ during which the three winning teams presented their final proposals. Team members from GIZ and Urban Design Collective were present during this session. The day-long session served as a final internal review to fine-tune the team presentations for the two grand finale presentation sessions that would follow over the next two days - one with the residents and another with city government officials and corporate entities.







19

GRAND FINALE COMMUNITY MEETING

17th March 2019 - Kasturibai Nagar Community Hall, Chennai

The grand finale community meeting was organized at the Kasturibai Nagar community hall and all the residents living in Adyar were invited for the event. Abinaya Rajavelu and Srivardhan Rajalingam from the UDC team went to Kotturpuram and personally invited the residents who live along the canal. For all other residents, digital invites were circulated online and through social media.

The meeting began with Abinaya Rajavelu from UDC presenting the rapid assessment report on solid waste management in Adyar that was created collaboratively with inputs from residents. The residents who were part of the mapping for the report were excited to see the output and requested to use the report to coax government officials to initiate plans for cleaning the area.

Following this, the three teams presented their proposals to the residents with a specific focus on the various tactical urbanism projects and other such community-oriented approaches towards the revival and long-term upkeep of this stretch of the canal.

The meeting concluded with a scrumptious lunch and a pledge to not let this become the end of the efforts and commitment to revive the canal.



ALL ARE WELCOME!

GRAND FINALE COMMUNITY MEETING

Date: 17 March 2019, Sunday

Time: 10:00 AM to 1:00 PM

Venue: Kasturibai Nagar Community hall
(opposite Nilgiris Supermarket
on Kasturibai Nagar 3rd Cross Street)

Lunch will be served after the presentations from
12:30PM onwards.

We request to please call **044-24454827** to confirm
your participation **latest by 5PM on
16th March 2019 (Saturday)** to help us ascertain
the correct number of lunches to organize.

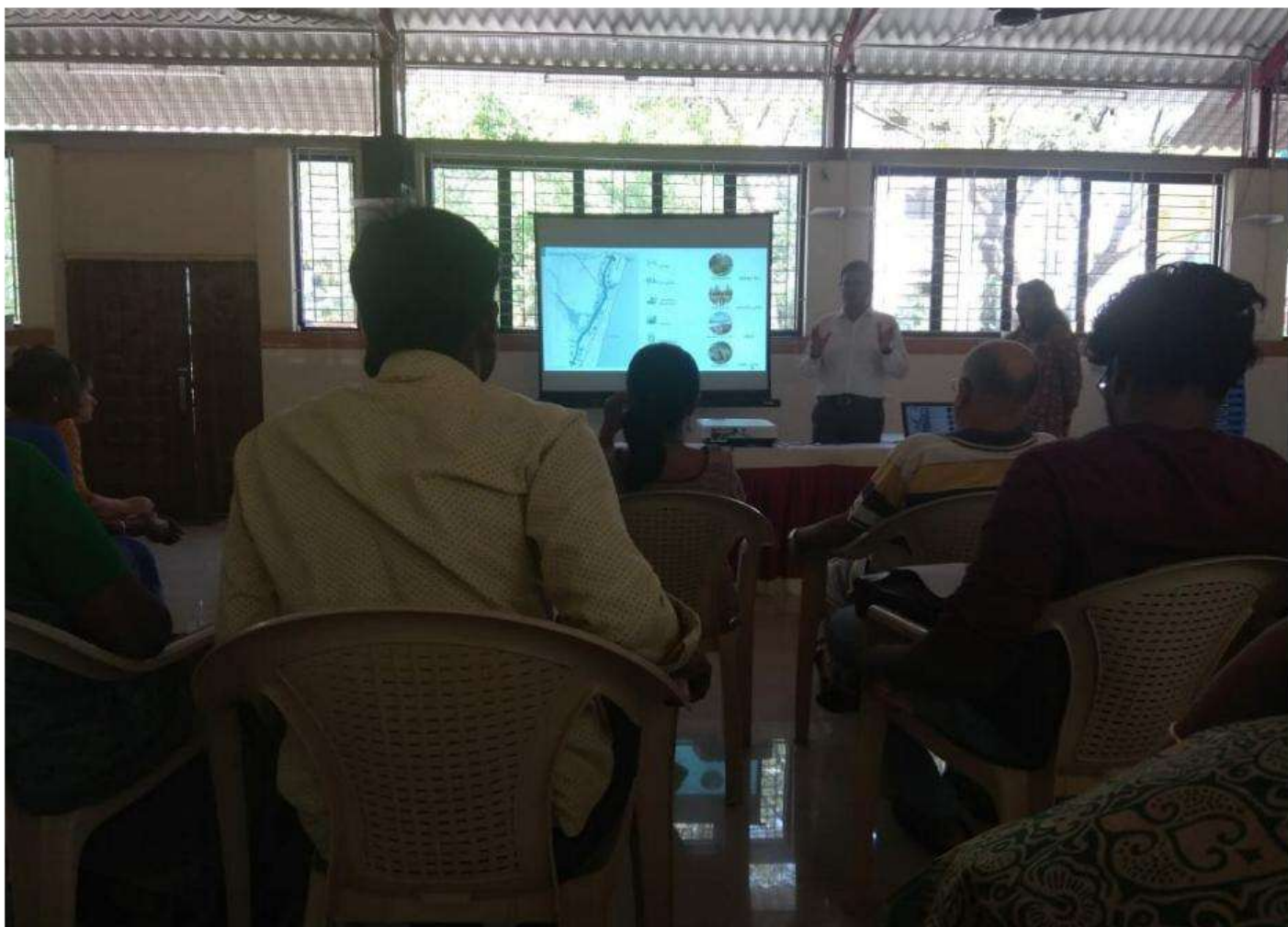
If you prefer to only participate in the meeting and
not stay for lunch, you need not call to confirm.

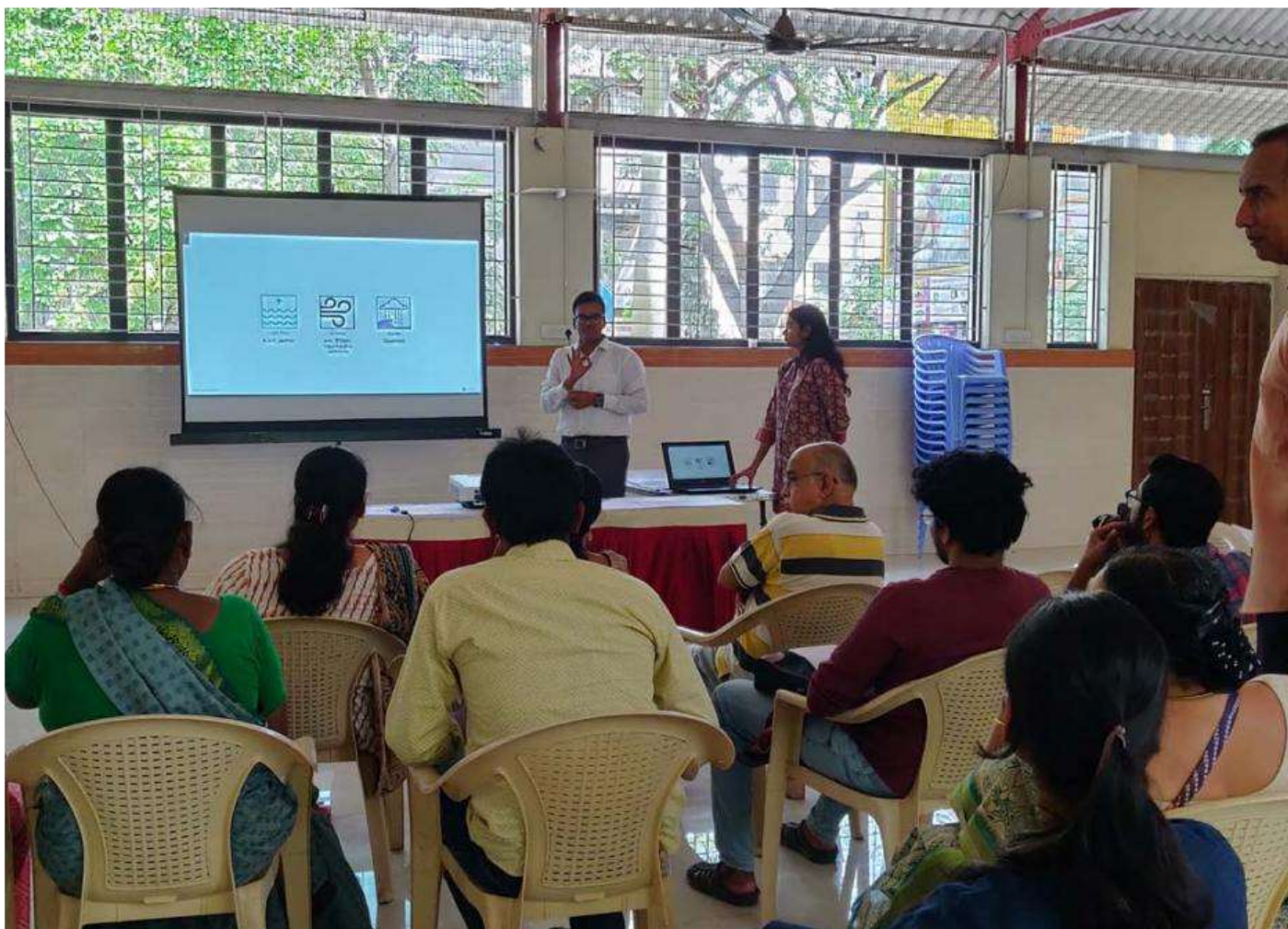


EYES ON THE CANAL is an exercise in participatory planning to make the Buckingham canal a livable place for the residents of Chennai. Since April 2018, this initiative has involved various activities such as awareness walks, community engagement meetings and an open-ideas competition to generate interest and ownership for the canal which has suffered from our collective abandonment.

This GRAND FINALE COMMUNITY MEETING is an event that marks the culmination of the process to generate design proposals to revive the canal along the stretch from Kotturpuram MRTS station to Thiruvanmiyur MRTS station.

The meeting is merely an opportunity to present these design ideas to the community that lives along this stretch for feedback and DOES NOT mark the end of our efforts to revive the canal... it is merely the end of the first phase of a participatory process to reimagine Chennai's Buckingham Canal.







20

GRAND FINALE MEETING WITH VARIOUS GOVERNMENT BODIES

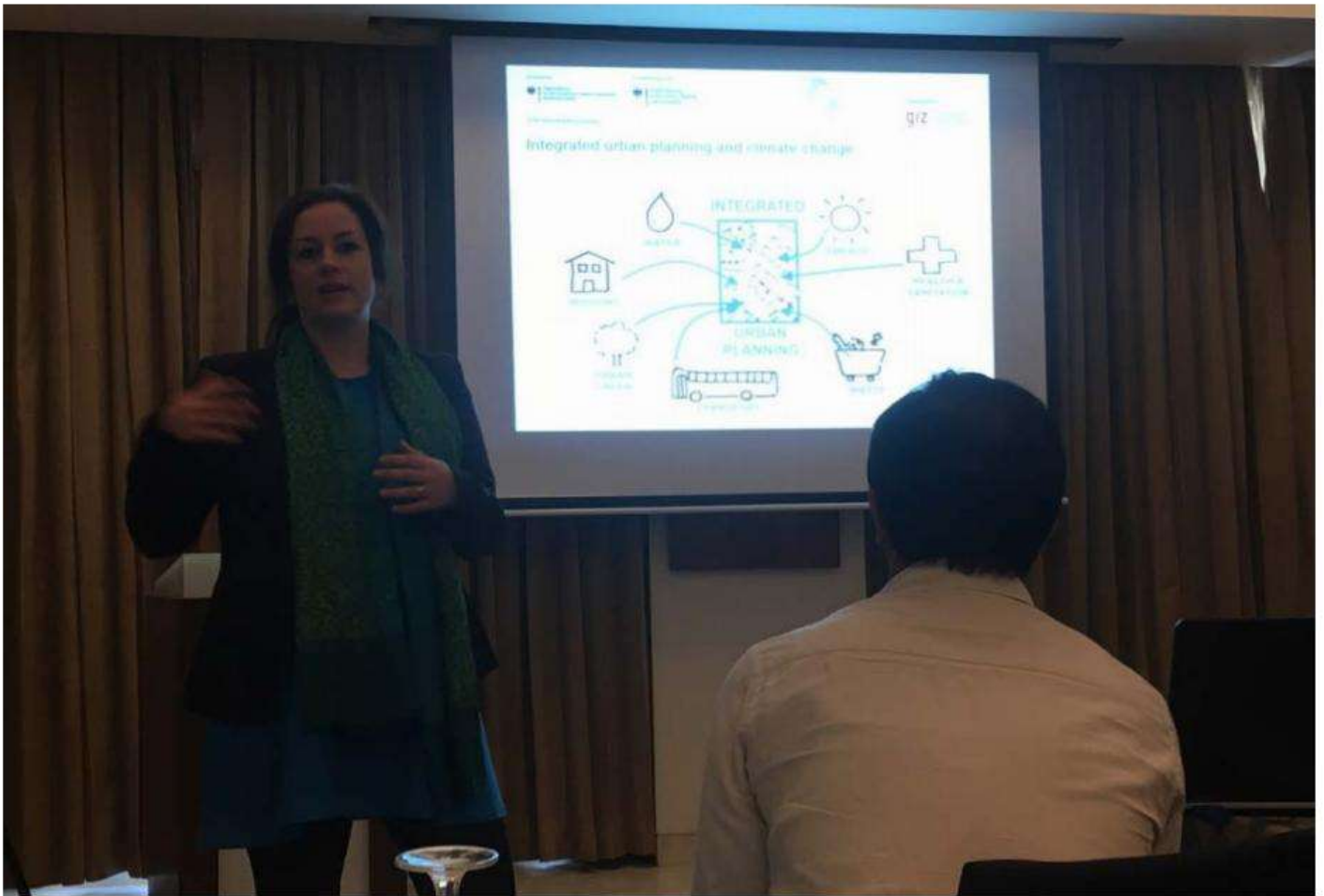
18th March 2019 - Hotel Raintree, St. Mary's Road, Chennai

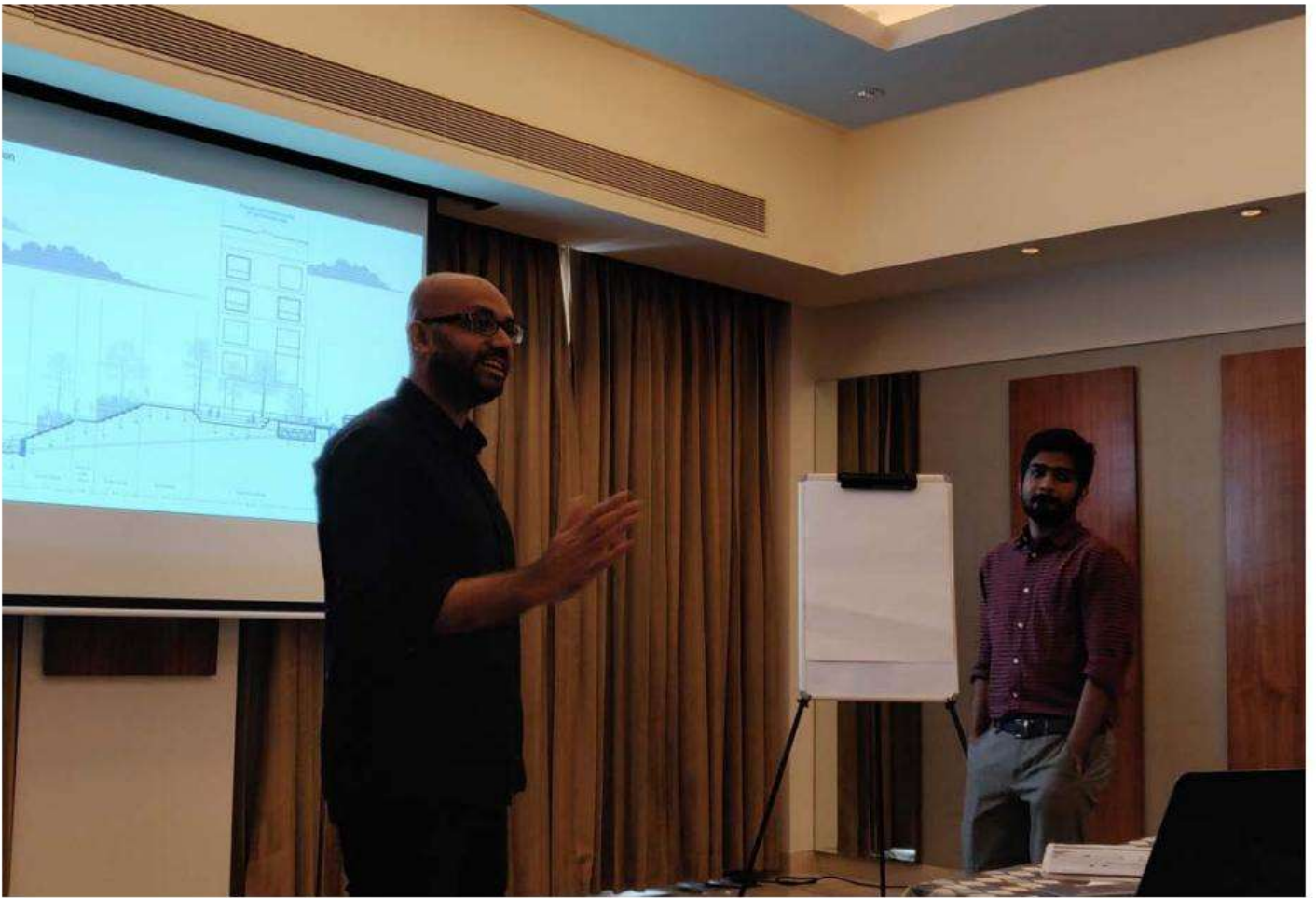
The grand finale meeting with various government officials was attended by representatives from Southern Railways/ MRTS, Chennai Rivers Restoration Trust (CRRT), Chennai Metro Water Supply and Sewerage Board (CMWSSB) and also organizations like Nature Conservancy, 100 Resilient Cities, Paperman and Care Earth as well as a few resident representatives from Adyar.

The day started off with Georg Jahnsen, K. Sudhakar and Amina Laura-Schild of GIZ taking turns to explain the larger vision of the 'Cities Fit for Climate Change' project and the various initiatives taken up as part of the project in Chennai, Durban and Santiago over the last 3 years. After this, Vidhya Mohankumar from Urban Design Collective walked the audience through the full timeline of the Eyes on the Canal project with specifics on how it has constantly focused on a participatory approach.

With all the introductions done, the three teams took turns to present their detailed project proposals followed by a Q&A session. The attendees were impressed with the efforts and offered all possible support to take things further within the capacities of the departments/ agencies that they represent.



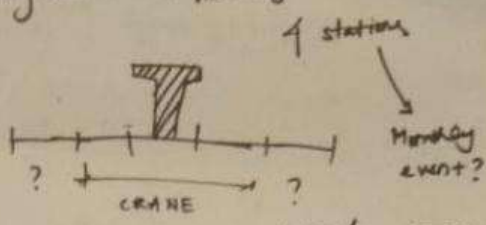




The second half of the day was used for a working group discussion with all participants split into 3 groups while ensuring that each group had a diverse mix of all the attendees. The objective for the working group discussion was to have each group identify four or more strategies with potential to become quick wins on the ground for the Eyes on the Canal project. All three working groups presented their ideas at the end of the 45 minute session.



- Community should spearhead it. → MLA Funds??
- Buy in from community/awareness/stop vending
- MRTS station permission.
- Larger Chennai?
- Student/Institutional Campaigns?
- Social media strategy?
- Use of space → stakeholder mapping → Champions from govt. department.
- A consortium of RWA, MRTS, CRRT, GCC, etc.
- MRTS roof garden?? Get funding, we are open to a conversation.
 - S. Railway, Chennai.
- registered/unregistered to protect the/restore the canal.
 - Cooperates - who will they invest in?
- Exit strategy??



ROKA

- Core team
- ADYAR sector for the B Team.
- Meet political wing.

PAPERMAN

- Waste management
- Long term
- Alternatives.

Nature Conservat

- Technical Expertise for water quality

GIZ

- Facilitator
- Technical expertise
- Extend the project.
- Bridge with the govt.

Blank Slate

- Design
- Place making
- Community
- Commitment

UDC

- Community govt. badge.

Studio POB

- Social Media Marketing
- Student body

Team SPONGE

- Create guidelines/technical expertise for rainwater harvesting
- Future scenarios
- Professional responsibility.

Issue	Concerned body	How
Water flow	PWD	

- Ensure flow in the canal.
- Cleanliness of the canal.
- Cost v/s benefits. (economic evaluation) DPRs.
- Understanding existing policies.

• MP ^{LAD} ~~LRD~~ Fund to be routed for projects

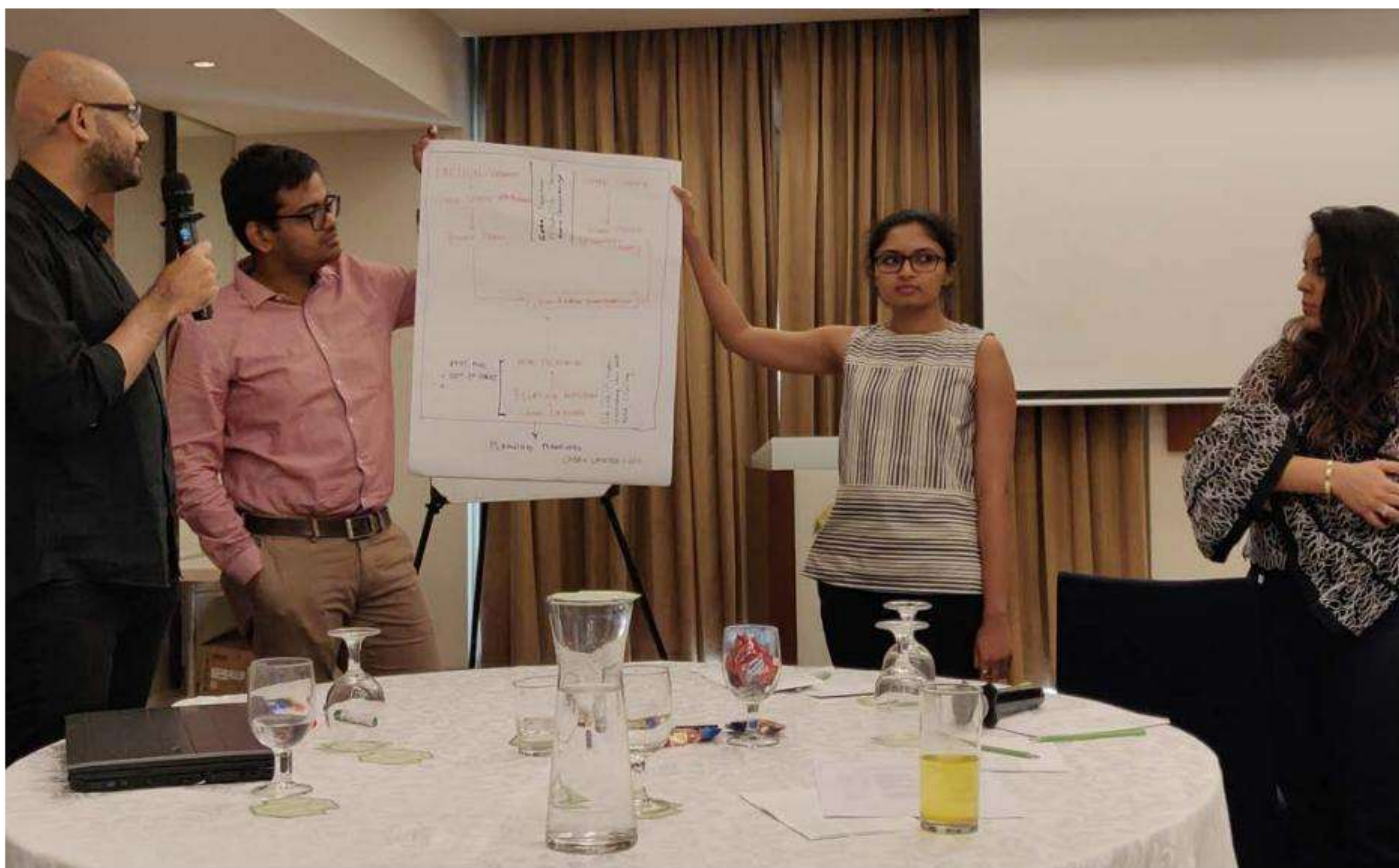
Single Window Operation

A unified team with all concerned departments that has full power of decision making to expediate the process.

- CRRT
- CMO
-

- MLA MP.
- ↳ "Say the word Canal"
- ↳ Central Government + State Government need to work in tandem.
- Officials need a skilled team.

Government / Political momentum
 ↳ Data
 ↳ Finance.



This marked the end of phase 2 of the project for reimagining Chennai's Buckingham Canal into a liveable space and a model for climate-proof urban development through a participatory approach; the overarching sentiment at the end of the entire exercise being that the Buckingham Canal could indeed be reimagined AND realized only by the collective effort of keeping our eyes on the canal.



The grand finale meeting concluded with a group photo of all the attendees.

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TEAM ACKNOWLEDGMENTS

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Image used in this report are courtesy of:

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