

Grant No.	22 – G38
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Research Report

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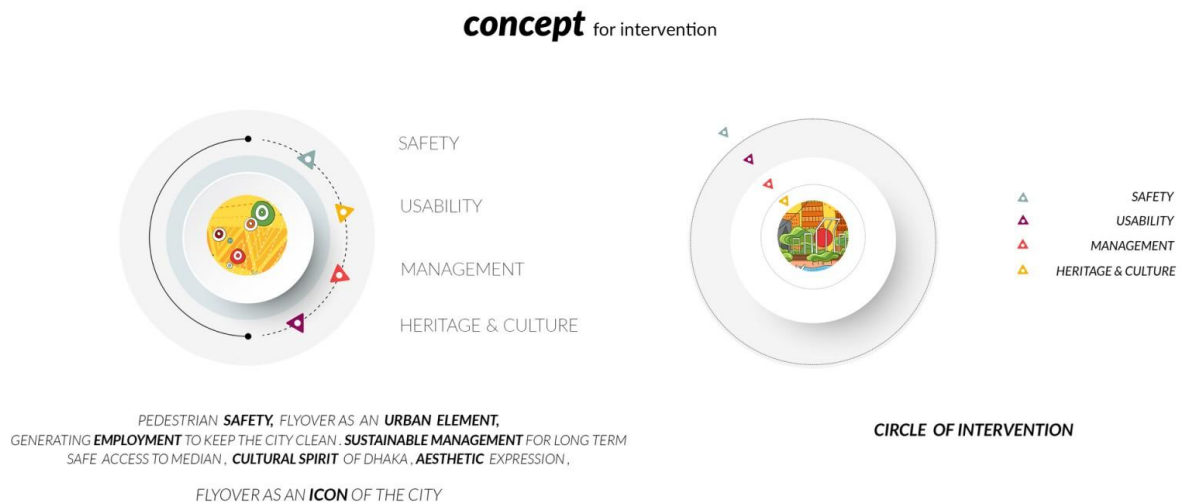
Organization (at the start of the grant period): **Kyoto University**

Title of Research:

Living with the Infrastructure: Understanding under infrastructure area management and design strategies for global south context

Purpose of Research:

This project tackles the often-neglected spaces under flyovers in Dhaka , aiming to revitalize them with a **people-centric approach**. The key lies in respecting the existing site context and under-flyover users while injecting new life through innovative design strategies. The site is Mayor Hanif Flyover in Dhaka, Bangladesh which is a context of global south.



Images : Vision for the flyovers in Dhaka . Mayor hanif flyover. Render images prepared by Srijon Barua,
illustration courtesy: Resham Shahab tirtha

Central to the vision is a **community-based lease system**. Local businesses gain opportunities to advertise on designated flyover surfaces, generating income and fostering local entrepreneurial spirit. This activation breathes life into the space, transforming it from a passive zone into a vibrant community hub by using artworks from renowned artists in Bangladesh who tries to portray cultural and social aspects of Dhaka, Bangladesh. The design prioritizes **openness and integration** with the surrounding environment. The median structure beneath the flyover remains largely unobstructed, ensuring unobstructed views and minimizing the feeling of enclosure. However the median surfaces are sloped to not promote sitting as the space is in the middle of the road. Safety and security of the road and users are of utmost priority.

Furthermore, the project empowers the local informal community by **integrating them into maintenance efforts**. This fosters ownership and responsibility for their own spaces, ensuring the long-term sustainability of the revitalized spaces

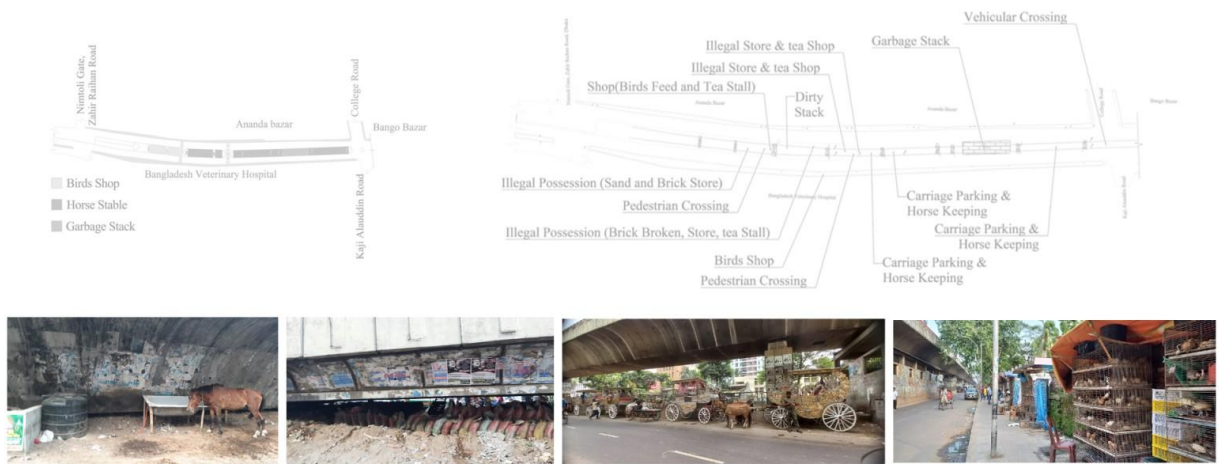
under the flyover. By adopting these strategies, this design seeks to bridge the gap between infrastructure and community, fostering a sense of belonging and transforming under-flyover spaces into vibrant, functional, and aesthetically pleasing areas for all.

Content/Methodology of Research:

The methodology employed in the research proposal for the beautification project beneath the Mayor Hanif Flyover in Dhaka represents a strategic approach to revitalizing urban spaces around the flyover. Following five-step methodology was followed to ensure a comprehensive and effective transformation of the flyover spaces.

FLYOVER LAYOUT AND ZONING FOR THE DSCC PROJECT

Area 01 : Chankharpul to Bongo Bazar
(EPA06 - EP03)



As the starting point of the mayor hanif flyover this area has some existing scenarios which contains , **Horse Keeping , Carriage Parking, poultry farms , Garbage dumps etc . Narrow roads and commercial landuses** on both sides.

Image: Area 01 analysis , Inception report pages

01. The first step involves a systematic division of the under flyover space into eight distinct areas. This segmentation strategy is crucial for managing the project's scope, allowing for a focused and tailored approach to each zone's unique challenges and opportunities.

After analysing the existing situations , we have identified core issues and proables into three catagories of flyover infrastructure elements .

- A. Problems surrounding flyover **column**
- B. Problems surrounding flyover **median**
- C. Problems surrounding flyover **celling surfaces**

A. Problems surrounding **FLYOVER COLUMN**

Roadside urination, garbage dump is a common issue in many cities, particularly in areas with a lack of public restrooms., waste disposal spots It can be unsanitary and can contribute to poor public hygiene and sanitation. Flyover columns tend to be a common spot for such activities as it provides a terminal end and enclosure to hide and do activities .

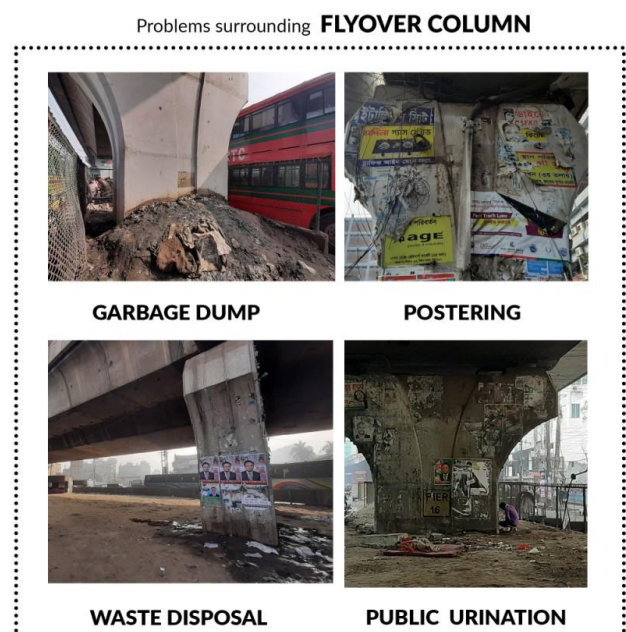


Image: Identifying flyover column problems. Flyover elements analysis.

02. Following the division into areas, the second step is to observe and identify problems specifically surrounding the flyover's columns, median, and ceiling within each zone. This involves a detailed analysis of the physical conditions, landuse , spatial configurations, and any social dynamics affecting these areas. This careful observation phase is

essential for gathering evidence-based insights into the various factors that detract from the space's potential. Understanding these problems is foundational to proposing effective solutions.

4 + 3 + 3

EXAMPLE : CONTEXTUAL SOLUTION

PART 03

3.3 SOLUTION MATRIX

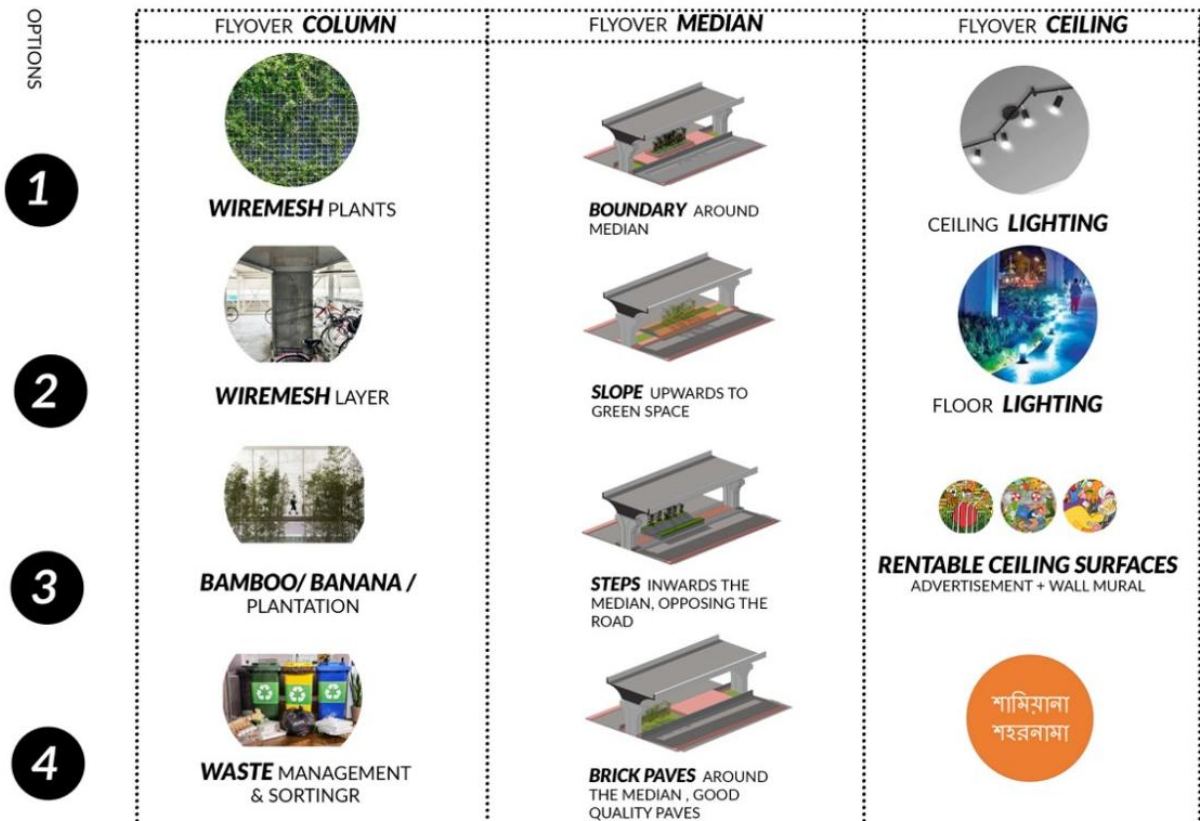


Image: A solution matrix for combinations of solutions based on each context

03. Building on the insights gained, the third step involves proposing different scenarios and solutions tailored to the challenges identified in the columns, median, and ceiling of each zone. This phase is characterized by creative problem-solving and strategic planning, exploring a range of design and functional enhancements that can transform these underutilized spaces into vibrant, useful, and aesthetically pleasing areas along with commercial implication. The proposals consider the broader urban context and aim to serve the community's needs, enhancing the overall quality of urban life.



Image: Photomontage for area 01 , solutions involving illustrated advertisement lease of flyover surfaces.

04.The fourth step enriches the project by involving renowned artists to collaborate on the design solutions and creating photomontage that illustrate the potential transformations. This integration of art into the project not only enhances the aesthetic value of the spaces but also embeds local culture and identity into the urban fabric. Illustrations work as advertisement of potential local organizations who are willing to lease flyover surfaces.



REACTIONS & OUTCOMES , AS OF APRIL 27,2023

Images: Mayor meeting and some outcomes from different sites

05.Finally, the methodology culminates in a presentation to the city council and the Mayor. This crucial step is an opportunity to showcase the project's vision, its expected impact, and how it aligns with broader urban development goals. It involves articulating the benefits of the proposed interventions, addressing potential concerns, and engaging with decision-makers to secure the necessary approvals and support.

Conclusion/Observation (200 words)

The conclusion of the research project on the beautification of spaces beneath the Mayor Hanif Flyover in Dhaka expresses the potential impact and challenges of urban space revitalization efforts. This conclusion is articulated through three key insights derived from the project's methodology and outcomes.

Firstly, the project demonstrated that aesthetically pleasing surface enhancements are well received by communities. The introduction of art and design elements beneath the flyover not only improves the visual appeal of these spaces but also fosters a sense of pride and ownership among local residents.

Secondly, the artworks created on the flyover surfaces have the potential to become iconic landmarks within the city. The enthusiastic response from the general population, particularly evident through social media reactions, indicates a widespread appreciation for the integration of art into public infrastructure. This positive reception not only validates the project's approach but also suggests that art on infrastructures can play a crucial role in shaping the cultural identity of urban spaces, making them more engaging and memorable for both residents and visitors. We wish to incorporate lease economy in this mechanism.



Lastly, the project sheds light on the challenges posed by the fragmentation of stakeholder responsibilities in the management and maintenance of urban infrastructure. The research identified that government and state entities often face limitations in the freedom of application due to unclear divisions of responsibility. This ambiguity can lead to reluctance among stakeholders to take charge of managing residual spaces in transportation infrastructure. The project underscores the need for clearer delineation of duties and collaboration among various stakeholders to overcome these challenges and ensure the successful implementation and maintenance of urban beautification projects.

Please Kindly see the attached Inception report PDF for the complete documentation of the project.