

PROGRAMME OF THE INTERNATIONAL SCIENTIFIC CONFERENCE



Partnership for sustainable development in Bangladesh

1. **Grammo- Participatory rural residential research workshop** (Collaboration with a local community organization, government institution, users, and architecture schools), Design -Built module by NGO and other organization funding. Academic module design to prepare students for 4IR
2. **DIU-FNF works on Smart city** (academic project converted into idea proposal and sent to Govt. Institution)
3. **DIU-ASEFSU23 Hackathon** (A project designed to connect young hackers, designers, innovators, urban planners, and SDG experts to collaborate and develop urban solutions for challenges in three of the most populated countries)
4. **DIU-SUPERWIEN** academic collaboration for **Participatory Urban Design** (The main task is to design public spaces with participatory design techniques that involve the residents in the development of design ideas)

SHEIKH MUHAMMAD REZWAN

Assistant Professor & Assoc. Head, Department of Architecture,

DIU



Daffodil
International
University



LANDSCAPE, RIVER AND AGRICULTURE



LEISURE TIME



LOCAL REPRESENTATIVES



REVIVAL HOUSE



EXHIBITION



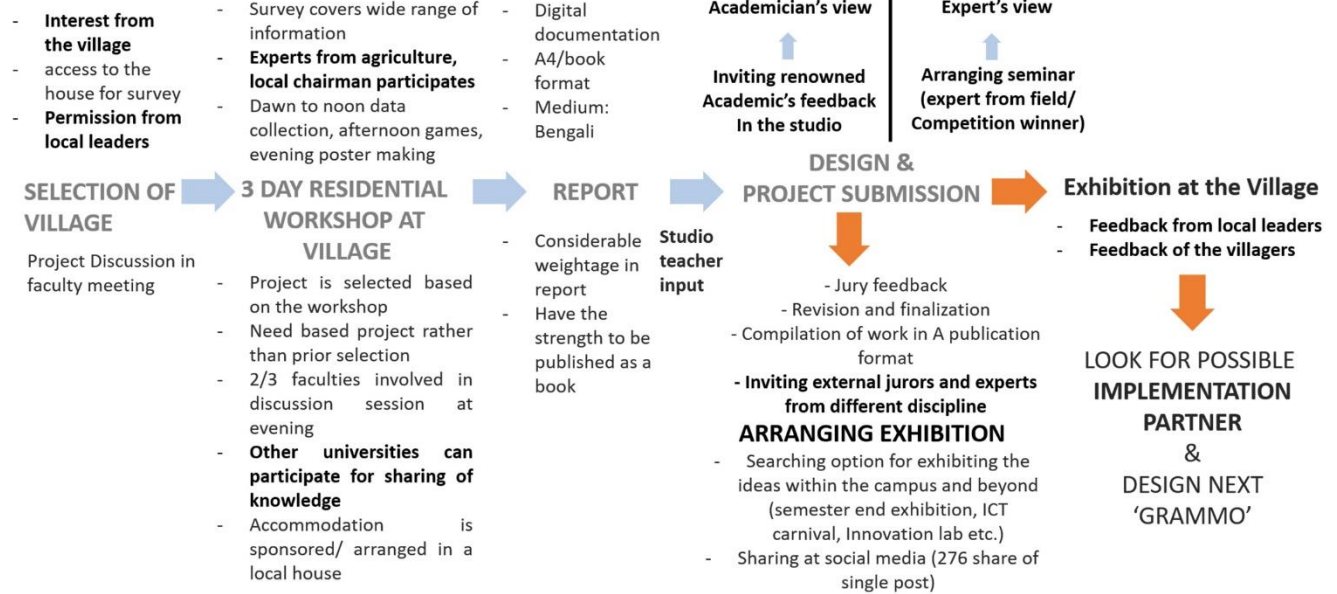
HOUSE MAKING



HOUSE SURVEY

PROJECT NAME: **GRAMMO**
 DESIGNED BY: **SHEIKH MUHAMMAD REZWAN**
 PROJECT DURATION: **2019- ongoing**
 PROJECT TYPE: **INDUSTRY-ACADEMIA LINKAGE**
 RESPONSIBILITY: **WORKSHOP ORGANIZE, FACILITATION, PROPOSAL GENERATION, FINDING IMPLEMENTATION PARTNER**

THE PROCESS



Grammo: The Idea

- The political statement of 2018 national election campaign- 'Village will be the city' made me worried about the future of our village. 'Grammo' is a Bengali word meaning 'of the village'
- Introducing *community architecture initiative in academia* as a sustainable practice
- Lack of local book on Village development written by the local architects
- To place architecture of village within a broad spectrum of socio-cultural and landscape event
- Produce first hand data which can help academic and architects
- Villages are transforming in a rapid pace, without much concern for a sustainable future.
- Collaborative research approach
- Residential workshop planned to have a deeper understanding and engagement



প্রতিটি গ্রাম আলাদা, বুঝতে হলে গ্রাম দেখতে হবে, থাকতে হবে
কৃষকের আশ্রয়ের সাথে শুরু হয় প্রাথমিকভাবে কৃষকের মাঠে,
ঘাস-ছাউনীরা মাঠে কাজ করবে, মাটিতে নিজে হাতে বুকে কসল



স্থানীয় সরকার, কৃষক, অংশীজনের সাথে হবে
উদ্ভুক্ত অপেক্ষা নাহি, ঘাটে, বটপালায়



থাকবে গ্রামের এই বাসার, একসাথে
সকলের পথের শান্ত গ্রামে মাটাতে পা
ছলিতে চলেবে পালবে আসল

৩ দিন পুরো ব্যবহার করার জন্য থাকা, খাওয়ানো ভরসা 'প্রাকৃতিক কৃষি কেন্দ্রের'
উপর, ১০০% অর্পণিক

সবকিছুর মাঝে 'গ্রাম্য' প্রকল্পটির মাঠে যেন টিক হয়, ১৬ ঘন ছাত্র-ছাত্রীর সাথে
থাকবে আমরা ২ জন শিক্ষক



Grammo - 1
Location: Kautiya, Manikganj
Participant: DIU 4th year students (18 nos.), Saad
Acknowledgement: Delwar Jahan
Homestead surveyed: 12 nos

- Outcome**
1. Documentation of two village living and exhibition
 2. Best poster award at Smart Village conference COSVARD 2019
 3. Knowledge dissemination with KIIT School of Rural Management, India and Smart Village Living Lab, KIIT. Student wrote article in newspaper.
 4. Designing an extension building in that village



প্রতিটি গ্রাম আলাদা, বুঝতে হলে গ্রাম দেখতে হবে, থাকতে হবে



কি হলে গ্রামের মানুষের সাথে শুরু হয় গ্রামের
আশ্রয়ের সাথে শুরু হয় গ্রামের আশ্রয়ের সাথে শুরু হয় গ্রামের



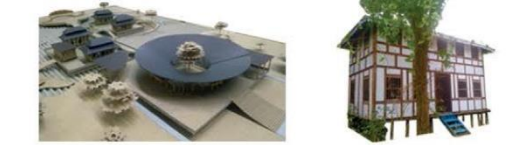
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উপর, ১০০% অর্পণিক



Grammo X Revival -2
Location: Khidirpara, Munshiganj
Participant: DIU students (11 nos.), Bracu 4 nos. stu-
dents, Nazmul Haque Nayeem, Dilruba Ferdous Ac-
knowledge: Faisal Huda, Delwar Jahan, Nusrat Isti-
aque Jahan, Asa Al Jurip
Homestead surveyed: 11 nos.

- Outcome**
1. A traditional house was built by Revival
 2. Experience sharing in Bangla Radio 95.2 FM, Presentation in an online Webinar in BD, in Chitkara University and Polytechnic University of Phillipines, 2020
 3. Project of Grammo won ICT Carnival award, DIU 2019



Grammo X Revival-3
Participant: DIU 3 nos. students
Acknowledgement: Faisal Huda, Asa Al Jurip
Homestead surveyed: 3 nos.



- Outcome**
1. Published paper in a conference 'Comparing Social Sustainability – A case study of Wooden Houses and Masonry Houses in Munshiganj, Bangladesh
 2. One of the participant successfully defended thesis on- 'Resilience Village Hub' another got award for upscaling of prefabricated house
 3. Scope of Collaborative Research with Kyushu University, Japan



Initial thermal comfort study to understand the scenario

Room	Air Temp (°C)	Air Humidity (%)	Daylight (lux)	Air Temp (°C)	Air Humidity (%)	Daylight (lux)
Living	26.2	67.5	88	26.0	67.5	70
Bed	26.8	67.5	88	26.0	67.5	82
Kitchen	26.2	67.5	70	26.0	67.5	82
Bath	25.9	67.5	82	26.0	67.5	82
Veranda	26.8	67.5	88	26.0	67.5	82

Grammo X Revival-4
Participant: DIU students (6 nos.), Bracu, Dilruba Ferdous, EWU students (3 nos.), S-UB students (4 nos.), Mr. Monirul
Acknowledgement: Faisal Huda, Dr. Ashir Ahmed
Homestead surveyed: 3 nos.



প্রতিটি গ্রাম আলাদা, বুঝতে হলে গ্রাম দেখতে হবে, থাকতে হবে



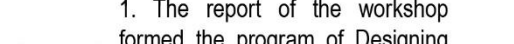
কি হলে গ্রামের মানুষের সাথে শুরু হয় গ্রামের
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থাকবে আমরা ২ জন শিক্ষক



- Outcome**
1. The report of the workshop formed the program of Designing 'Center for the differently able people' as an academic project and was submitted to the client Dr. Ashir Ahmed
 2. Multi disciplinary report on Differently able people's living condition, human rights etc.



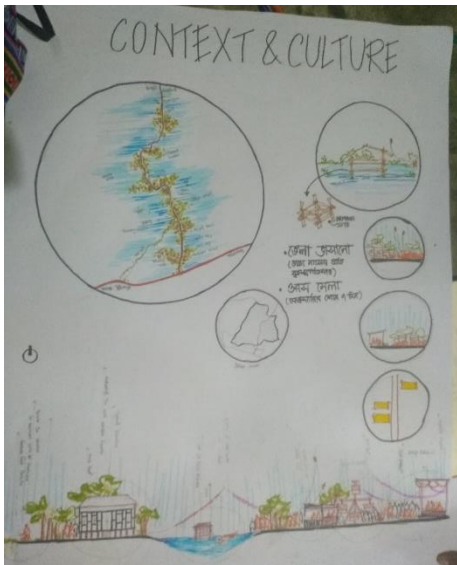
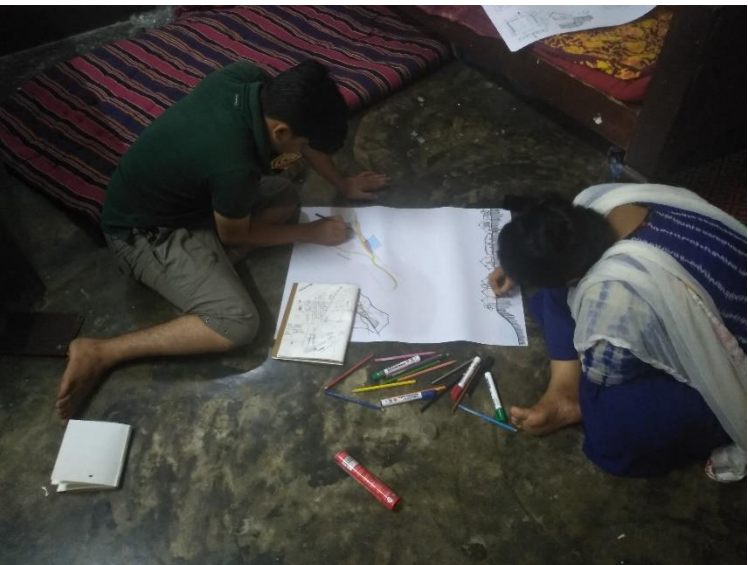
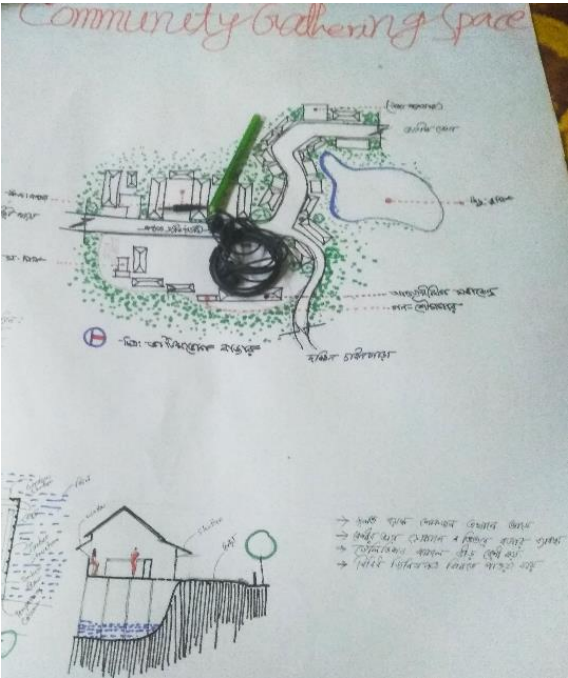
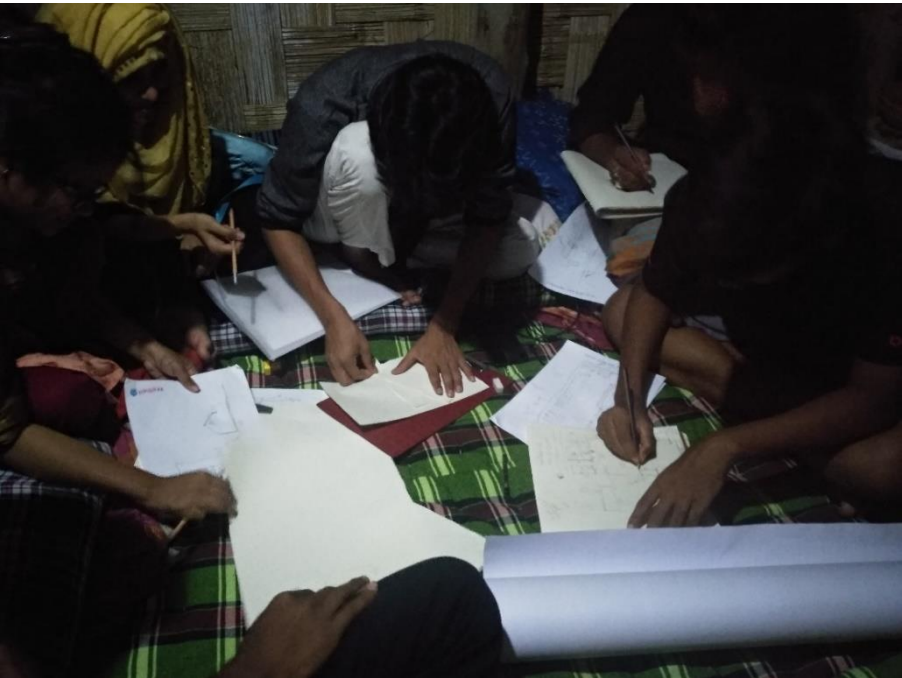


The survey (Data collection)

Meeting with Local
Vice Chairman,
knowing about
proposed projects and
future development
possibilities



Collaborative Documentation at the Evening

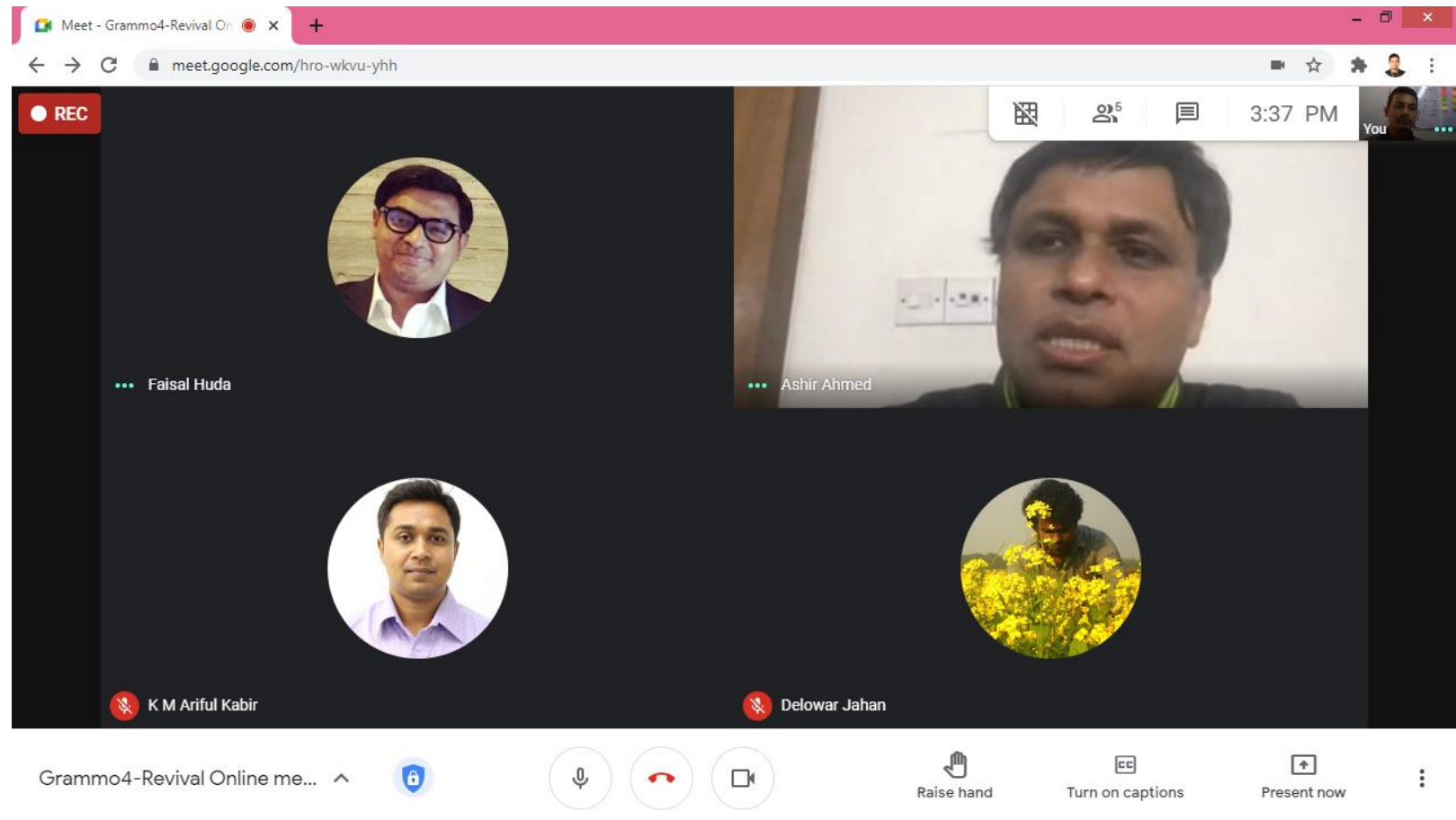




Pandemic Situation

Limited participants

Remote connection through video conferencing tool



Experience

Grammo: the feel of rural life

Tahajjod Hossain Taubid | Published: 00:00, Apr 21, 2019



Students take part in a knowledge exchanging session with a local representative.

A group of architecture major students from Daffodil University, while working on a project about designing community space in villages, visited two villages in Manikganj. During their four day stay, they have met young farmers practicing indigenous agricultural methods to produce organic crop. They have learnt about people's lifestyle and relation to rural architecture, writes **Tahajjod Hossain Taubid**: SK Md Rezwan and Bidyut behind lens

EXPERIENCE SHARING IN DIFFERENT PLATFORM

শুধুমাত্র,
আসছে "গ্রাম্মা"!
 (GRAMMO RESIDENTIAL WORKSHOP)
 ২৬শে সেপ্টেম্বর, বুধসপতিবার, বিকেল ৬টায়া।

গ্রাম্মা বাঁচলে,
 বাঁচবে শহর!
 প্রতিটি গ্রাম্মা আলাদা,
 বুঝতে হলে গ্রাম্মা দেখতে হবে,
 গ্রাম্মা থাকতে হবে।

bangla radio
 95.2 FM

Boithok



ARCHITECTURE PRACTICE FOR THE COMMUNITY & BEYOND

July 12, 2020 | Sunday | 8pm GMT+6 (10am EDT)

Speaker(s)

Saad Ben Mostafa
Architect

Rizvi Hassan
Architect

Samira Binte Bashir Proytee
Ph. D Student, UT Austin

Khwaja Nuzhat Zerine Fatmi
Architect

Sheikh Rezwan
Academic & Architect



CHITKARA
UNIVERSITY



Daffodil
International
University

Transnational Education

Design Studio as 'RESPONSIBILITY'

Ar. Sheikh Muhammad Rezwan
Senior Lecturer
Department of Architecture
Daffodil International University



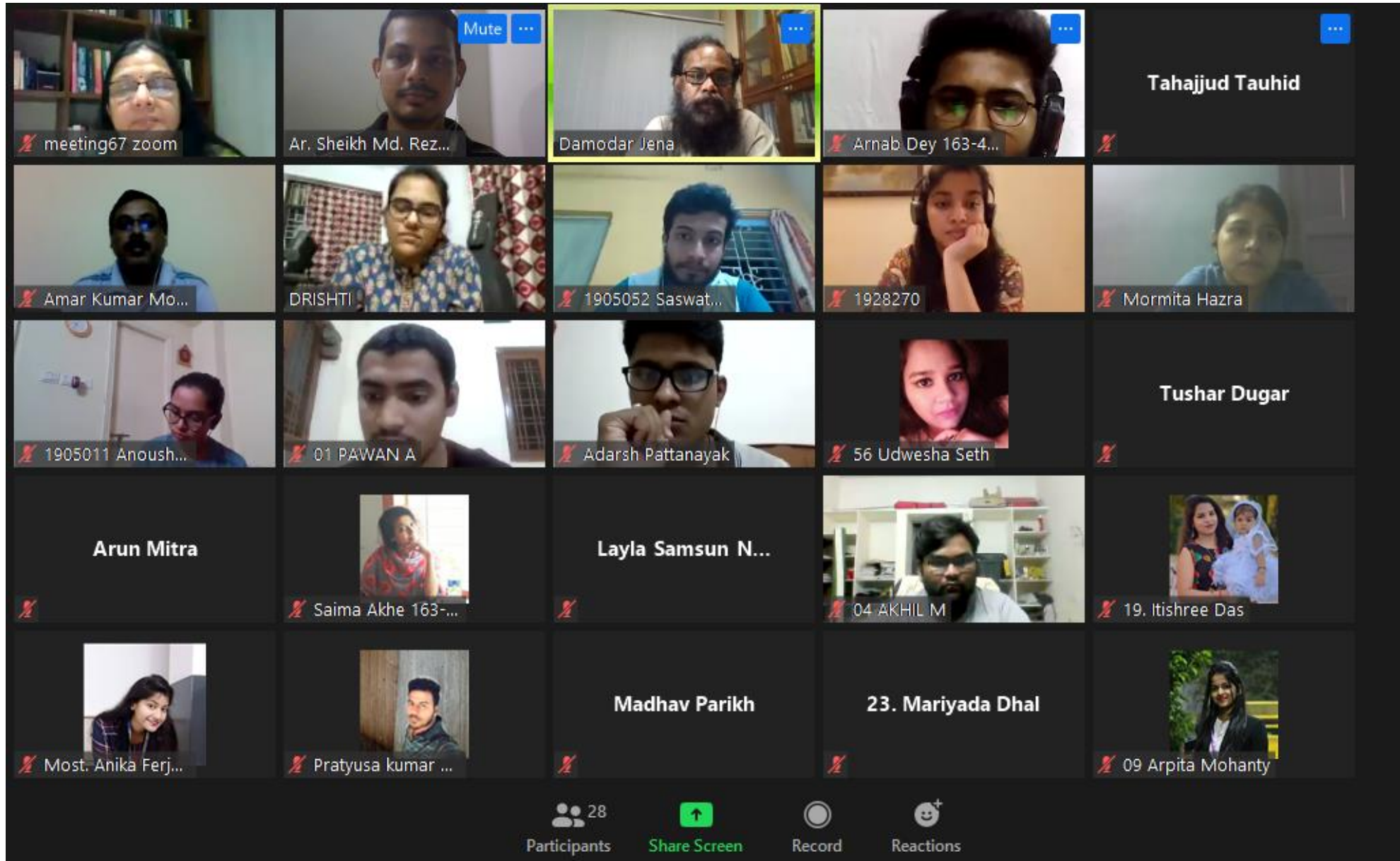
28th July 2020

2:00 P.M.

Session for :
Chitkara School of Planning and Architecture

Explore Your Potential

On October 10, 2020 Student's of DoA, DIU shared their 'Grammo' workshop experience with KIIT School of Rural Management, India and Smart Village Living Lab, KIIT.

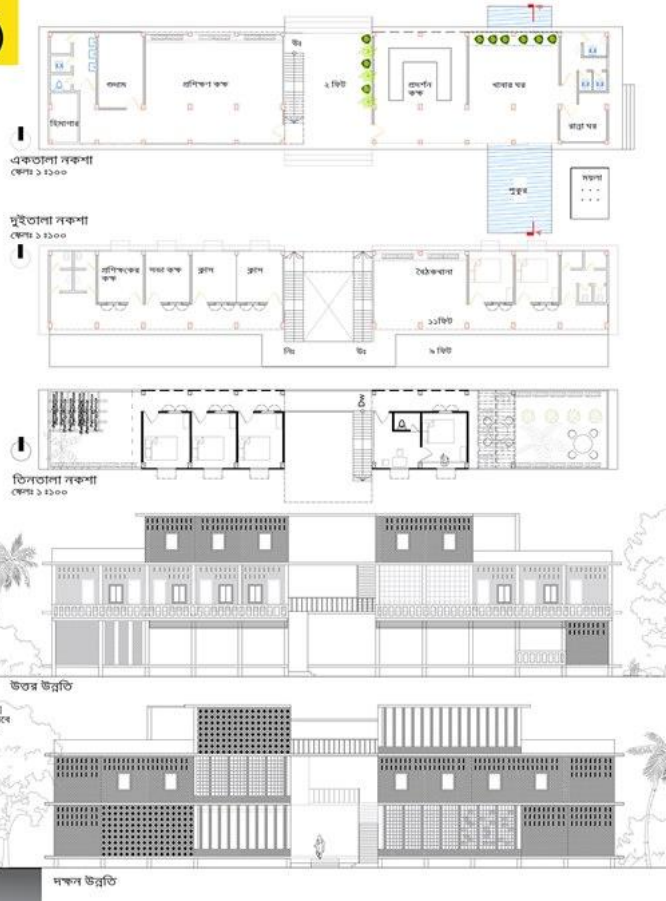


Reflection of Learning: Model making



কৃষি কেন্দ্র, কাউটিয়া মানিকগঞ্জ

কৃষি কেন্দ্র কাউটিয়া নামক একটি ছোট গ্রামে ৭০% মানুষ কৃষি নির্বাহী কাউটিয়া খুইই শান্ত, স্বল্প ব্যয়নের একটি গ্রাম কৃষি কেন্দ্রটি প্রাকৃতিক উপায় মাধ্যমে শিক্ষা দান করে। ডিজাইন এ গ্রামের পরিবেশ এর কথা চিন্তা করে করা হয়েছে। স্থানীয় লোকজন সাহায্য নিয়ে ইট বাধান তৈরি সিনেটর তালনা ২ ফিট উপলভ্য করা হয়েছে যাতে মাটির ক্ষতি না হয়। মাটাস সহজে মেতে পারে সেভাবে ডিজাইন করা হয়েছে। বিভিন্ন টা সম্পূর্ণ জমির এক পাশে করা যাতে সম্পূর্ণ জমিতে চাষাবাদ করতে পারে। কৃষি কেন্দ্রটি কিভাবে কিস খরচে এলাকার মানুষ এর সাহায্য নিয়ে পরিবেশের ক্ষতি না করে করা যায় সেটাই ছিল এই ডিজাইন এর প্রধান উদ্দেশ্য।



ছেদাংশ : ক-ক
স্কেল ১:৫০

দক্ষিণ উন্নতি

পূর্ব দিকের উন্নতি

Introducing the need based design project after the workshop is done. The top left project is the future Expansion proposal of the Agricultural center at Manikganj. The top right one search for village tourism scope by proposing an added room within the homestead. The bottom left is a resort facility at Manikganj to experience the land-water dialogue. Thus project is developed not in the class, but in the village, based on enquiry.



Partners presence in the project presentation





EXHIBITION AT VILLAGE MARKET AND COMMUNITY PLACE, an action that the villagers didn't expect. No one come back, but we did. Student's explaining design to the crowd.

Developing Framework for a Smart Future:

Case study of a flood prone village in delta
Sheikh Mohammad Rezwan¹, Saad Al Islam²

1.Senior lecturer,Dept of Architecture,DIU
2.Lecturer,Dept of Architecture,DIU

Introduction

Dhaka is one of the fastest growing megacities in the world [1]. Dhaka District is bounded by the districts of Gazipur, Tangail, Munshiganj, Rajbari, Narayanganj, Manikganj. The rural to urban migration rate in Bangladesh is 21.9%, according to BBS 2011. The urbanisation of Dhaka puts pressure in the districts too. Many industries are situated in between Manikganj and Dhaka. The agricultural land is also decreasing. Water level increase of the rivers Jamuna, Dhaleshwari, Kaliganga, Ichamati worsen the flood condition of Manikganj in a regular basis. Kawtiya, a small village in manikganj district suffers from severe flood due to the river kali-ganga. Pucca household buildings are being built in Kawtiya following the example of Dhaka. This buildings does not match with existing fabric of the village. The openness, relationship with the courtyard, connection with waterbody etc. all are threatened suddenly. The young generation are not yet aware of what they are losing but to copy the style and appreciate that. The meaning of being 'smart' is still vague in general. It is important to note that the concept for urban smart communities is already very well established—e.g., Smart Cities, but less so for rural communities as the concept Smart Village has only recently gained momentum. According to Bangladesh Bureau of Statistics 2011 there are 87,310 village (approximately) in the country. Hence the fate of the cities largely depends on the fate of the villages.

Objective

This poster do not envision for a smart village but towards a smart future of the village after due understanding of the existing situation of the village. It also does not propose a prototype framework, rather a specific framework for this village/ the villages which has similar challenges. The framework for a river side agrarian village will not meet a village of principally low land/ marshy land. The understanding of this uniqueness to be carefully addressed in the framework of future.

Methodology

The study was conducted during 10-12 April, 2019 in the village Kawtiya, Manikganj under the course Arch402 Design of Community Space, department of Architecture, DIU supervised by the author. The village was selected due to its close proximity from Dhaka and the survey could be conducted easily through an agricultural center at the village. A three day residential workshop organized with 16 students and two faculties of Daffodil International University. The day time was fixed for survey on the topics: geography, agriculture, irrigation, education, healthcare facilities, interaction space and house pattern. Physical measurement of space, interview and questionnaire survey was done to get the data. Focus group discussion was carried out in local market area to review the data collected. The evening time was designed for group discussion and correction of the data collected. The union council chairman and vice chairman was approached to know about the plan of the government for rural development. All the data was then digitally produced at the studio. Literature review was done regarding the term 'smart' and also on framework development. The analysis was done based on the data to find out the challenges under the survey topic. The proposed framework tries to address those challenges.

Literature review

Definition of 'smart'
The smart dimension of the development might not always be addressed under the label 'smart' but could also be interwaved with other dimensions, as in the case of SDGs where the smart dimension is addressed in most of them addressing other specific aspects: sustainability, well-being, (inclusive and equitable quality) education, empowerment of women and girls, management of water resources, accessibility of sustainable energy, sustainable economic growth and decent work, building resilient infrastructures, fostering innovation, reducing inequalities, making human settlements more inclusive and sustainable, taking actions to combat climate change, protecting ecosystems, etc. [2].
Research from Indian institute of science shows that, smart village framework can be described from different perspectives such as: a bundle of services delivered to its residents through community participatory approach in an effective and efficient manner or in another way it can be viewed from management approach which focuses more on roles of different institutions, ways to adopt technology, ways to use resources etc [3].

Figure 1: Framework of Smart Village

Figure 2: Smart Village Framework

Survey Findings

Geography

The Kawtiya village is situated beside river kali-ganga. Two canals flows within the union. The village gets flooded during heavy monsoon. The buildings are made on high plinth using mud with only exception of the prakriti krishi kendra, which is built on wooden post in the deltaic condition the landscape changes fluently over the time, is shown in the maps.



Agriculture

Bangladesh has an agrarian economy, although the contribution of agriculture in GDP has been decreasing over the last few years. Yet, it dominates the economy, accommodating the major rural labor-force. For instance, the total proportion of land holdings being farmed has been reduced from 72.7 percent in 1983 to about 58.6 percent in 2008. Furthermore, because of rapid growth of urbanisation and associated infrastructure, every year Bangladesh loses 0.3 percent of its cultivated land. We have to keep in mind that the economy of Bangladesh is still mostly agrarian with 48 percent of the labour force engaged in agriculture and related activities (BBS 2010). Being very close to the capital, from food security perspectives, the reduction of agricultural land should be carefully monitored.

Natural Agricultural Centre								
Training	Local Business Promotion	Natural environment protection	Mass communication	Local culture	Seed Preservation	Support and development	Women's involvement in business	Farming
Workshop, field trip, training, etc.	Organize local market, fair, etc.	Planting, soil conservation, etc.	Community meetings, etc.	Local festivals, etc.	Seed bank, etc.	Micro-finance, etc.	Self-help groups, etc.	Organic farming, etc.

Health care

The major health hazard identified is shashkosto. Due to close proximity of tobacco factory and profit margin farmers cultivate tobacco which causes health hazard.

House Pattern

All the houses are built on high base/vita of 2/3' high. New structures are more higher than the previous as the water level rises more than the previous. Households develop around a courtyard which has multiple uses. Each house has domestic animal of some sort. Storage of tobacco is seen within the living space ceiling which is harmful. Households are surrounded by different types of trees. Environmental consideration is not very prominent. Some houses are facing E-W direction. Due to surround trees the heat is not felt that much. But the environmental data shows indoor air temperature 31-32 degree celsius on an average.

Table 1: House pattern and environmental performance

House No.	Area (sq. ft.)	Volume (cu. ft.)	Height (ft.)	Comments
1	100	1000	10	Traditional house with high base and courtyard.
2	120	1200	10	Similar to house 1 but with different layout.
3	150	1500	10	Higher base and more open space.
4	180	1800	10	Modernized house with concrete walls.
5	200	2000	10	Large house with multiple rooms.

Interaction space

The villages people passes their leisure time around the historic banyan tree and in the afternoon they go to the jabra market. The teenagers in the villages is seen using mobile during the leisure time also as in the city. Focus group discussion with the young and the aged have identified some major points about the difference between the village and the city. Above all, the teenagers are more inclined towards living in the city.

Framework

Agribusiness and rural extension	Sustainable building material production and use	Training centers and extension	Resilient local business	Waste management
Establishing rural extension centers, etc.	Using local materials for building, etc.	Organizing training sessions, etc.	Supporting local entrepreneurs, etc.	Setting up waste collection systems, etc.

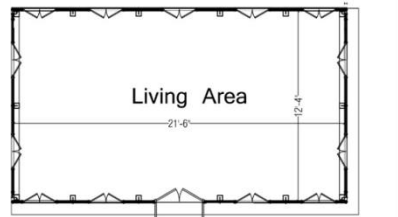
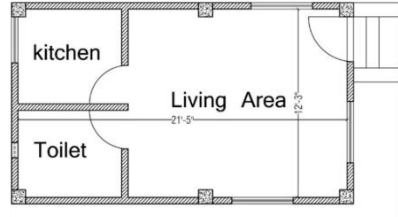
Reference

1. "InCites T" Urbanization Takes on New Dimensions in Asia's Population Growth Today, 2001, Oct, 29(7):1-2
2. "Envision2030: 17 Goals to Transform the World for Persons with Disabilities, Available online: https://www.un.org/development/desa/enable/2030/index.html"
3. "Rachananda TV Ganesh Hegde, Subash Chandra M. D. Tajaravini Ananth Kumar and Vishnu Manjanna Srinivas S 2018, SMART Raghul H Effort towards Self-reliant & Self-sufficient system empowering Man power (or rural youth) with Appropriate Rural Technologies, ITR 350, Energy & Wetlands Research Group, CED, Indian Institute of Science, Bangalore"

The left one is a poster submitted to the Smart Village conference COSVARD 2019 and won best poster award. Co-author: Saad Al Islam, lecturer, DIU

The bottom one is a working paper on the sustainability of traditional House in Munshiganj. Co-author: prof. Kanika Bansal, Chitkara University, India

Transformation



Initial thermal comfort study to understand the scenario

Point	Traditional Ghar				Contemporary Masonry house			
	Air Temp. (°C)	Air Velocity (m/s)	Humidity (%)	Daylight Level (lux)	Air Temp. (°C)	Air Velocity (m/s)	Humidity (%)	Daylight Level (lux)
A	34.2	0.7-1.7	68	92500	33.7	0.1-0.3	70	19500
B	33.8	0.7-2.0	68	16600	33.2	0.1-0.3	82	17500
C	33.2	0.5-1.2	70	10300	33.4	0.1-0.3	82	10000
D	32.9	0.4-0.7	81	140	33.9	0-0.1	78	120
E	32.8	0.3-0.6	68	210	32.7	0	85	210

LAB INSTRUMENT AVAILABLE



Digital Lux Meter/Light Meter Model: LX-1330B Range: 2,00,000 Lux Made in China Available: 02 PCS	Digital Thermo/Hygrometer with sensor Model: PH-1000 ZEAL - ENGL AND 06 PCS	Digital Anemometer Model: AM-4202 LUTRON - TAIWAN 01 PCS	Digital Sound Level Meter Model: SL-4012 LUTRON - TAIWAN 01 PCS
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Laser Distance Meter
Model: LDM-100-CHINA 01 PCS

Small footprint



A collaborative, participatory research program for a better tomorrow



To Be Continued...

2017

Workshop on: SMART CITY
Smart City | Good City | Our City

KEYNOTE SPEAKER Mr. Md Masudul Islam

Dr. Masudul Islam is an architect and urban designer. He is currently working in urban projects in Bangladesh and India. He is a former Program Director of The World Institute for Urban Studies (WIUS) in a workshop with WIUS. His public sector projects have been awarded a national award in Bangladesh. He was awarded the Best Urban Masterplan Challenge in 2012 by WIUS. He was awarded the Best Urban Masterplan of Urban Design for his contribution in other stages in Bangladesh. He also has experience in urban planning, urban research, real estate, urban design, and urban infrastructure.

July 28, 2017 10:00 am - 3:00 pm

****Followed By: Lunch & gift items for participants**

STIFTUNG FÜR DIE FREIHEIT Daffodil University

STIFTUNG FÜR DIE FREIHEIT Daffodil University

Workshop On: "Towards an Energy Efficient City"

Lecture Session

Keynote Speakers

Dr. Saiful Haque
Dr. Syed Azimul Haq, Peng

Workshop Instructor

Dr. S. M. Nasir Uddin

September 23, 2017
10:00 am to 3:00 pm
Banquet Hall
+8801811-45 88 96

REGISTRATION
<http://bit.ly/2wv57f3>

02. DIU-FNF works on Smart city

URBAN MOBILITY: DESIGN FOR PEDESTRIAN

THINKING BEYOND THE PLATFORM: GULISTAN SKYWALK

2018

STUDENT PROJECT EXHIBITION

URBAN MOBILITY: DESIGN FOR PEDESTRIAN

TIME AND VENUE
8TH - 9TH MAY 2018
10:00AM - 2:00PM
GYANAPASH ABDOU, RAZAK, BIDYAPATI, DHANMONDI

CHIEF GUEST
DR. SAIFUL HAQUE, URBAN DESIGNER
Professor and Coordinator, Urban Design and Landscape Division
Department of Architecture, Bangladesh University of Engineering and Technology (BUET)

HOSTED BY SPEAKER
MR. MASUDUL ISLAM, URBAN DESIGNER AND PRINCIPAL PROJECT DESIGNER
STUDENTS PRESENTATION

PARTICIPANT UNIVERSITIES DESIGN STUDIOS IN DEPARTMENT OF ARCHITECTURE, BUET, BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET), UNIVERSITY OF JALPAIGURI

INTEGRATING PEDESTRIAN CIRCULATION WITH ELEVATED BRT & EXPRESSWAY

TIME AND VENUE
6TH OCTOBER 2018
10:00AM - 12:00PM
BANQUET HALL, DAFFODIL TOWER

CHIEF GUEST
MOHAMMAD SHARIF ULLAH
CHIEF URBAN PLANNER
DHAQ, SOUTH CITY CORPORATION

SPEAKER
PROF. KRISHNA, ENRICH
HEAD, DEPARTMENT OF ARCHITECTURE, IIT
SR. MD. REZWAN
SENIOR LECTURER, DEPARTMENT OF ARCHITECTURE, IIT

STIFTUNG FÜR DIE FREIHEIT Daffodil University

what is smart city

Dialogue, Discussion and Brainstorming

Who is a smart city? Does it represent a city with the most efficient ways of using its natural resources, does the term dictate a city which work together with the automation of the everyday infrastructures? Does smart city differ from green city, sustainable city? The concept of smart city raises more questions than it answers. Through this workshop, we will brainstorm in finding the answers and may offer insights to further research and apply the knowledge in our city.

WORKSHOP
Room-404 (Business Dept. Digital Classroom) Daffodil Tower, Level-4
9:00am- 2:00pm, Saturday
01 DECEMBER, 2018

Register to participate following the link:
<https://goo.gl/vm5ueGp>
Seat limit: 30
Facilities: Research with Architecture/Planning background

Chief Guest
Professor Khondaker Shabbir Ahmed
Specialization: Environment, Sensative Architecture & Urban Design Consultant

Special Guest
Masudul Islam Shamma
Architect and Urban Designer
Research Coordinator, Bengal Institute for Architecture, Landscapes and Settlements

Facilitator
Rashed Chowdhury, Principal Architect of DW, (Design Works)
Specialization: Research, Senior Lecturer, Department of Architecture, DIU
They have recently attended FNF's leadership program: GreenBuilding Germany on Smart Cities and Modern Mobility.

STIFTUNG FÜR DIE FREIHEIT Daffodil University

Ride Sharing Business

UBER OLA LYR GOAJEK
PICKME pathao SHOHOZ

what is smart city

Dialogue, Discussion and Brainstorming

Who is a smart city? Does it represent a city with the most efficient ways of using its natural resources, does the term dictate a city which work together with the automation of the everyday infrastructures? Does smart city differ from green city, sustainable city? The concept of smart city raises more questions than it answers. Through this workshop, we will brainstorm in finding the answers and may offer insights to further research and apply the knowledge in our city.

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STIFTUNG FÜR DIE FREIHEIT Daffodil University

2019

INTEGRATING PEDESTRIAN CIRCULATION WITH ELEVATED BRT, EXPRESSWAY & MRT: PROPOSAL FOR SKYWALK

NEW MARKET SKYWALK GULISTAN SKYWALK

STIFTUNG FÜR DIE FREIHEIT Daffodil University

PROJECT FOR PROPOSAL OF SKYWALK AT NEW MARKET STATION

STIFTUNG FÜR DIE FREIHEIT Daffodil University

Main Objective of MOC between EnF and DIU:

Promote e-commerce business potentials targeting future young entrepreneurs (Digital Transformation).

Identify smart solutions to move towards becoming a smart city (Smart Cities).

Smart City Event- 2018

Theme- Urban Mobility and Infrastructure (Smart Cities)

The Idea

Dhaka is one of the most densely populated city in the world. The city needs continuous dialogue among different stakeholders to solve its own problem. Other cities are following the image of Dhaka, which is much debated. The plan is to move forward to Smart city, especially in terms of Transportation and Infrastructure, through organizing different workshop and seminar. The learning from this event will be shared through exhibition with a wide range of people and have their feedback. Renowned scholar, Govt' authority personnel are expected to come and give speech during the exhibition.

The Activities

The proposed activities are –Seminars, an exhibition and workshops

Call for Submission for Exhibition- Urban Mobility- Design for Pedestrian

Expert's always focus on a major point that- 'The roads of most city of Bangladesh is made for Vehicles not for People.' It is indeed a major topic of discussion. Designing for people has the potential to reduce traffic pressure on road. It's a passive but very efficient way. Other smart cities of the world are practicing this option. So separate bus lane, cycle lane, comfortal walking etc. can contribute to improve transport related problem in city. An exhibition will organized to showcase student's proposed solution. The Urban Design Studio 4-1 of Department of Architecture worked on this theme for one month. The outcome of this studio will displayed in the exhibition.

Venue: 2nd floor of Gyantaposh Abdur Razzaq Bidyapith (Former Dhaka Art Center)
House 1209, 60 Rd No. 7A, Dhaka

Date: 8th and 9th May (10:00am- 8:00pm daily)

Different Architecture schools are also involved in considering Pedestrian Mobility in their projects. It will be a great opportunity if ideas from different schools be displayed in the exhibition. So we are expecting your cordial participation in the exhibition. Selected project from the department is encouraged.

Submission format: 1/2 nos. A0 Size, Portrait (digital submission)

Submission date: 2nd May, 2018 within 1:00 pm

E- mail: rezwan.arch@daffodilvarsity.edu.bd

URBAN MOBILITY: DESIGN FOR PEDESTRIAN

TOWARDS A CULTURE of SHARING

WHAT I AM THINKING, THERE'S A POSSIBILITY THAT OTHER PEOPLE ARE ALSO THINKING ABOUT THAT

THE DIFFERENCE IS **THE WAY/THE PROCESS.**

I AM TEACHING AT A PARTICULAR UNIVERSITY, BUT WHAT IF I GET THE OPPORTUNITY TO REACH OTHERS!

ISN'T THAT EXCITING?

Different Architecture schools are also involved in considering Pedestrian Mobility in their projects. It will be a great opportunity if ideas from different schools be displayed in the exhibition. So we are expecting your cordial participation in the exhibition. Selected projects from the department is encouraged.

CALL FOR PARTICIPATION IN DIFFERENT SCHOOLS TO SHARE THEIR PROJECT- (SHEET+ MODEL)



INVITED PARTICIPANTS LIST

DEPARTMENT OF ARCHITECTURE
BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, BUET

ACCOMMODATING THE PEDESTRIAN
SWARAJIT SARKER

DEPARTMENT OF ARCHITECTURE, STATE UNIVERSITY OF BANGLADESH

I3- IMPACT, INTERPRET & INTERCHANGE

TSC STATION
S.M. MOHIT, GENIUS CHOWDHURY

PRESS CLUB STATION
TANVIRUL ISLAM, RAJON HAWLADER

KARWAN BAZAR STATION
NAZMUL HASAN SUMON, MIZAN

DEPARTMENT OF ARCHITECTURE, UNIVERSITY OF ASIA PACIFIC
RAILWAY TRANSFERENCE URBANISM

BANANI STATION PARK
REZWANA AHMED, MD. MUNIRUZZAMAN, SEIAM AFROZ AHMED, FALGUNI MAJUMDER

TEJGAON RAILWAY STATION
GROUP-1:
GROUP-2: LUBABAH SADIA, SYEDA NOORUN NAZIA, SAHNAZ SHARMIN, KANIZ FATEMA

CANTONMENT RAILWAY STATION

DEPARTMENT OF ARCHITECTURE, BANGLADESH UNIVERSITY

IMPACT OF MRT STATION
MD. KAMAL HOSSAIN, SHAHNAZ PARVIN

Friedrich Naumann
STIFTUNG FÜR DIE FREIHEIT



Daffodil
International
University



SHARED CAR
ACCESSIBILITY
MRT
BI-CYCLE
TOD

**[STUDENT PROJECT
EXHIBITION]**

ITS
SMART CITY
ENERGY
PUBLIC TRANSPORT
TRANSPORTATION INTERCHANGE



URBAN MOBILITY: DESIGN FOR PEDESTRIAN



TIME AND VENUE

8TH - 9TH MAY, 2018

10:00AM- 7:00PM

GYANTAPASH ABDUR RAZZAQ BIDYAPEETH, DHANMONDI

CHIEF GUEST

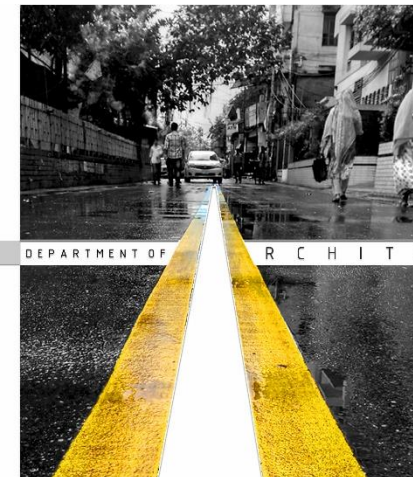
DR. QAZI AZIZUL MOWLA Architect-Urban Designer
Professor and Coordinator, Urban Design and Landscape Division
Department of Architecture, Bangladesh University of Engineering and Technology (BUET)

INVITED SPEAKER

AR. RASHED CHOWDHURY, FOUNDING PARTNER, AND PRINCIPAL ARCHITECT, DEHSAR WORKS

STUDENTS PRESENTATION

PARTICIPANT UNIVERSITY: DESIGN STUDIO VII, DEPARTMENT OF ARCHITECTURE DIU, State University of Bangladesh
Bangladesh University, BUET, University of Asia Pacific



DEPARTMENT OF ARCHITECTURE
DESIGN FOR PEDESTRIAN

URBAN MOBILITY
DESIGN FOR PEDESTRIAN

THE EXHIBITION



THINKING BEYOND THE PLATFORM: GULISTAN SKYWALK

SEMINAR on PUBLIC OPINION MASTER PLAN OF GULISTAN SKYWALK



4TH YEAR STUDENTS RESEARCH OUTCOME OF DEPT. OF ARCHITECTURE, DIU WILL BE SHARED. THREE DIFFERENT PROPOSALS WILL BE DISCUSSED EXPLAINING HOW GULISTAN'S FUTURE WILL BE CHANGED DUE TO MRT STATION AND UPCOMING PROPOSALS IN THE PRESENCE OF EXPERTS AND STAKEHOLDERS.



Chief Guest
MD. MOFIZ UDDIN AHMED
PPM (SERVICE)
JOINT POLICE COMMISSIONER
(TRAFFIC SOUTH)
DHAKA METROPOLITAN POLICE

Special Guest
ANINDYA KISHORE DEBNATH
ASSISTANT PROFESSOR, DURP, BUET

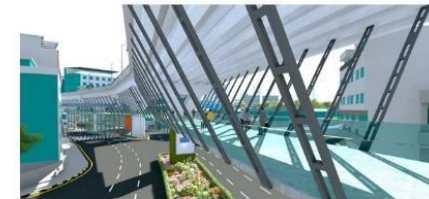
INVITED PRESENTATION
SADIQUL ISLAM SHEHAB
ARCHITECT, PAARA / OPUS STUDIO
B.Arch THESIS ON ELEVATED URBANISM

HALL-71 AUDITORIUM
Daffodil Tower
12:30pm- 3:00pm, Saturday
25 MAY, 2019

Register to participate following the link:
<https://bit.ly/2JPlehg>
ATTRACTIVE PARTICIPANT'S GIFT
PACKET IFTAR WILL BE SERVED



**YOUR OPINION
MATTERS!**



INTEGRATING PEDESTRIAN CIRCULATION WITH ELEVATED BRT & EXPRESSWAY

TIME AND VENUE

6TH OCTOBER, 2018

10:00AM- 12:00PM

BANQUET HALL, DAFFODIL TOWER



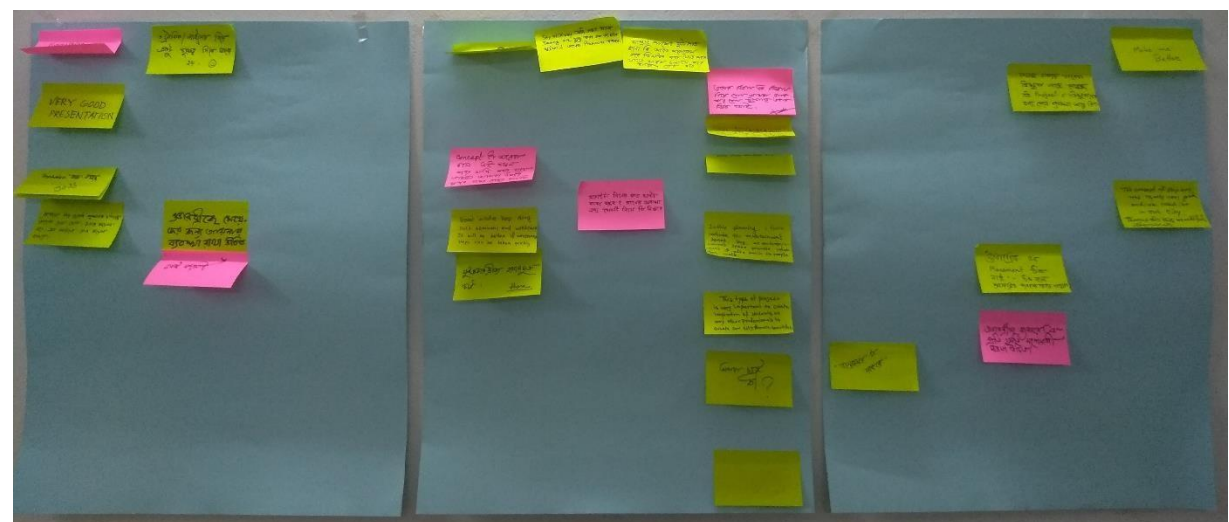
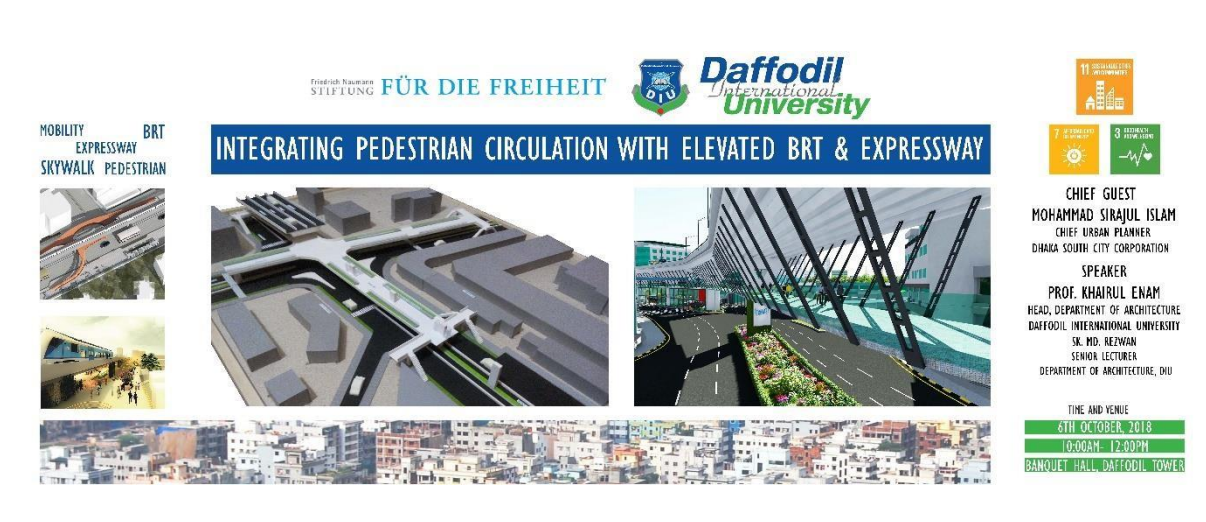
CHIEF GUEST
MOHAMMAD SIRAJUL ISLAM
CHIEF URBAN PLANNER
DHAKA SOUTH CITY CORPORATION

SPEAKER
PROF. KHAIRUL ENAM
HEAD, DEPARTMENT OF ARCHITECTURE, DIU
SK. MD. REZWAN

SENIOR LECTURER, DEPARTMENT OF ARCHITECTURE, DIU

Friedrich Naumann STIFTUNG FÜR DIE FREIHEIT







24th June, 2019



No - 2002

To
The Honorable Mayor
Dhaka South City Corporation
Dhaka, Bangladesh

Subject: Permission for Submission and presentation of the Project Idea Proposal on 'Gulistan Skywalk' and 'New Market Skywalk' incorporating BRT and MRT for livable Dhaka

Respected Sir,

As Bangladesh is moving forward at a high speed, the universities should come up with innovative and effective proposal to be a part of this journey. The purpose of the university is not only to create knowledge but also to apply it in the relevant field. DIU is trying its best to create graduate who will be able to shape the 'Digital Bangladesh'. The current government has undertaken many big projects like BRT, MRT and Elevated Expressway etc. in Dhaka to ease the vehicle movement and ensure safe transportation for the people.

The department of Architecture in association with the Friedrich Naumann Foundation (FNF) undertaken research program in the New market and Gulistan area on this, keeping in mind, the future of this infrastructure. We feel the need to propose elevated walkway/ Skywalk as a mean to disperse the mass people at safe destination. Our existing footpath is not enough to accommodate this huge pedestrians, this mass transit will produce. So we have proposed options in Gulistan and New Market Area based on extensive field survey. We have already shared our ideas through 2 nos. seminar, inviting planner, engineers, architects from the Govt. and Universities and taken their feedback.

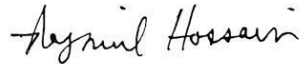
We would be very glad to have permission from you to present and submit our proposal for due consideration. Head of Architecture, Civil, Director of Students affair, Country Representative and program manager of FNF, Research Coordinator will be glad to attend the presentation. We have 3 models for display purpose also.

We, therefore expect your permission for the presentation and a schedule from you/ relevant personnel. A brief has been attached here explaining our proposal work. Your positive feedback will inspire us to do more need based solution for our beloved Dhaka City.

Sincerely yours



Prof. Khairul Enam
Head, Department of Architecture
Daffodil International University



Dr. Najmul Hossain
Country Representative
Friedrich Naumann Foundation for
Freedom (FNF Bangladesh)

For query: Sk.Md. Rezwan, Senior lecturer, DoA Mob: 01675633199

25th August, 2019

To
Executive Director
Dhaka Transport Coordination Authority
Dhaka South City Corporation
Nagar Bhabon, 13-14 floor, Fulbaria, Dhaka-19000

Subject: Request for Submission and presentation of Project Idea Proposal on 'GULISTAN SKYWALK' and 'New Market Skywalk' incorporating BRT and MRT for livable Dhaka

Respected Sir,

As Bangladesh is moving forward at a high speed, the universities should come up with innovative and effective proposal to be a part of this journey. The purpose of the university is not only to create knowledge but also to apply it in the relevant field. DIU is trying its best to create graduate who will be able to shape the 'Digital Bangladesh'. The current government has undertaken many big projects like BRT, MRT, Elevated Expressway etc. in Dhaka to ease the vehicle movement and ensure safe transportation for the people.

The department of Architecture, DIU in association with the Friedrich Naumann Foundation (FNF) had undertaken research program in the New market and Gulistan area on this, keeping in mind, the future of this infrastructure. We feel the need to propose elevated walkway/ Skywalk as a mean to disperse the mass people at safe destination. Our existing footpath is not enough to accommodate this huge pedestrians, this mass transit will produce. So we have proposed options in Gulistan and New Market Area based on extensive field survey. We have already shared our ideas through 2 nos. seminar, inviting planner, engineers, architects from the Govt. and Universities and taken their feedback.

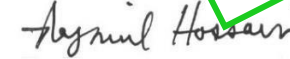
We would be very glad to have the opportunity to present and submit our proposal for due consideration. We have models for display purpose also. We would also be lucky to be involved, if the project is considered for implementation.

I, therefore request you for the presentation and a schedule from you. A brief has been attached here explaining our proposal work. Your positive feedback will inspire us to do more need based solution for our beloved Dhaka City.

Sincerely yours



Prof. Khairul Enam
Head, Department of Architecture
Daffodil International University



Dr. Najmul Hossain
Country Representative
Friedrich Naumann Foundation (FNF)

For query: Sk.Md. Rezwan, Senior lecturer, DoA Mob: 01675633199

What's
next?

On October 31, 2019 Department of Architecture, DIU presented their research work converted into idea proposal at DTCA (Dhaka Transport Coordination Authority) conference room, Nagar Bhaban for pedestrian integration with BRT, MRT and Expressway. Prof. Khairul Enam, Head, DoA and Sk. Md. Rezwan, Sr. Lecturer presented the work for due consideration. The meeting concluded with the remark that an **inter ministerial meeting** is needed for the project. Around 15 officials from deputy secretary to engineers attended the presentation and praised the effort.





03. DIU-ASEFSU23 Hackathon

23rd ASEF Summer University

held between 11 October – 15 November 2021
as a **Mentor**

ASEFSU23 Challenges:

- a. Waste Management in Bangladesh
- b. Obesity among Children in India
- c. Urban Mobility in Pakistan

The 23rd ASEF Summer University (ASEFSU23) was an interdisciplinary Hackathon on “Liveable Cities for a Sustainable Future” for Asian and European young professionals & students. Implemented as a virtual programme, this project was designed to connect young hackers, designers, innovators, urban planners and SDG experts to collaborate & develop urban solutions for challenges in three of the most populated countries in ASEM: Bangladesh, India & Pakistan. The role of the Mentors included providing thematic expert guidance to the Hackathon Team Leaders and the participants.

Ms Leonie NAGARAJAN
Director, Education Department
Asia-Europe Foundation (ASEF)

On behalf of all partners

Our Partners:

Youth & Student Organisations
Schools
Training and Leadership Institutes
Universities
NGOs & IOs
Ministries of Foreign Affairs
Ministries of Education

Our Participants:

Students
Young Professionals
Educators
University Leaders & Managers
Academics & Subject Experts
EdTech Experts
Policy Makers
Political Leaders

Co-organised by:





HACKATHON PHASE (4-15 NOV 2021)
GRAND FINALE (12-14 NOV 2021)
PROTOTYPE DEVELOPMENT WITH EXPERTS MENTORING

THU. 4 NOV



Kick-off
Event

FRI - THU. 5-11 NOV



Mentoring and Stakeholder Engagement – as needed

FRI. 12 NOV



Grand Finale – Development

SAT. 13 NOV

SUN. 14 NOV



Pitching of
Solutions

MON. 15 NOV



Awards
Presentation

POST-HACK PHASE (UP TO 3 MONTHS)
PROTOTYPE TESTING

Welcome Remarks by



Amb Léon Faber, Deputy Executive Director, Asia-Europe Foundation (ASEF)

Dr Md Sabur Khan, Chairman, Daffodil International University (DIU), Bangladesh

Dr Mahesh Rangarajan, Vice-Chancellor, Krea University, India

Ms Ayesha Zahid, Acting Rector, Superior University, Pakistan



23rd ASEF Summer University Awards Ceremony



PROJECT NAME: PARTICIPATORY URBAN DESIGN
 CONSULTANCY: Shahjahanpur Jheel, Dhaka
 CONSULTANT: SUPERWIEN URBANISM ZT GMBH
 PROJECT DURATION: 2021-22
 PROJECT STATUS: COMPLETED
 RESPONSIBILITY: LOCAL TEAM LEADER, Dhaka

CLIENT: DHAKA SOUTH CITY CORPORATION
 FUNDED BY: WORLD BANK GROUP
 MAIN PROJECT COMPONENT: PROJECT PREPARATION, INCEPTION PHASE, PUBLIC SPACE DIAGNOSTICS, CAPACITY BUILDING AND URBAN DESIGN PROCESS, DISSEMINATION AND KNOWLEDGE PRODUCTS

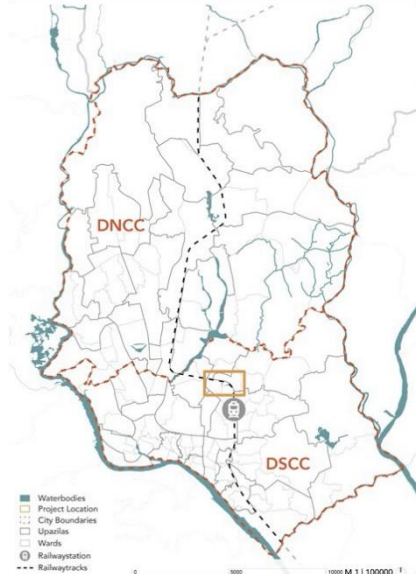


Figure 1: City of Dhaka divided into two administrative units, and location

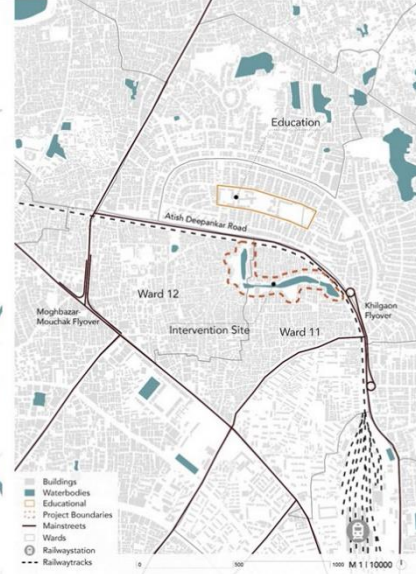


Figure 2: Shahjahanpur Jheel and its urban context. Source: Own figure

The World Bank Participatory Urban Design Project seeks to promote open and usable public spaces in underserved areas. Participatory urban design is understood as a tool to “elevate the human dimension of city life by promoting urban planning processes that **actively engage communities** in the design of urban public spaces, streetscapes and neighborhoods”.

The World Bank is working with the Government of Bangladesh on the “Dhaka Metropolitan Transformation Platform” as a long-term, multi-sector program that aims to transform Dhaka into a more livable and competitive city. In this context, the Dhaka City Neighborhood Upgrading Project (DCNUP) serves as a starting-point with a focus on public spaces in the administrative area of the Dhaka South City Corporation (DSCC).

The selected project area around Shahjahanpur Jheel faces many **challenges** that are typical for open spaces in Dhaka, while at the same time offering a great opportunity to provide a high-quality public space in a densely populated neighborhood and serving as a pilot case for other public space regenerations around water bodies.



Figure 4: Morphology of Khilgao-Basabo Jheel 2003-2021. Source: Own figure based on Google Earth.



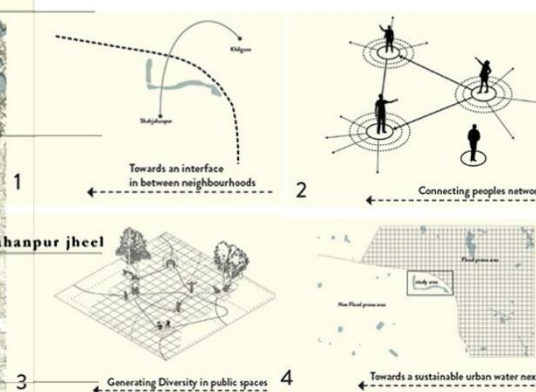
Figure 5: Site Plan of RAB-3 Complex at Khilgaon. Source: Own photograph, taken 23 April 2021



Figure 6: Shahjahanpur Jheel filled with waste, platforms for informal shops and gardening activity on the right side. Source: Own photograph, taken 23 April 2021.



Figure 3: Shahjahanpur Jheel and its potential connections to other water bodies and green spaces. Source: Own figure.



Specifically, Shahjahanpur Jheel features four opportunities that can improve the immediate neighborhood and serve as an inspiration for similar sites:

1. Towards an interface in between neighborhoods
2. Connecting peoples network
3. Generating diversity in Public space
4. Towards a sustainable urban water nexus

SHAHJAHANPUR JHEEL VISION

First input from DSCC, DSM and Key stakeholders

1. Clean water
2. Recreation spaces for the community
3. Greening the edge
4. Safe place
5. Proper maintenance
6. Community space

SAFETY FIRST

PHASE 02 **CAPACITY BUILDING AND URBAN DESIGN PROCESS**

CO-CREATION WORKSHOP

During this phase of the consultancy, a number of co-creation workshops were conducted in order to include the ideas of local stakeholder groups into the design process. The first four workshops that were conducted in the co-creation phase were designed for specific target groups: children, women, local entrepreneurs and community representatives.



Figure 19: Girls in the process of visualizing their ideas for the jheel area.



Figure 20: Interactive presentation of designs and voting for the best ideas.



Figure 21: Children's vision for the open space north of the jheel.



ENGAGEMENT ACTIVITIES

WOMEN WORKSHOP



Figure 22: Collages made by the women groups

ENTREPRENEURS WORKSHOP

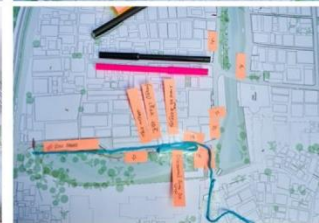


Figure 23: Input from the entrepreneurs

COMMUNITY REPRESENTATIVES WORKSHOP



Figure 24: Competition project voting & Input

DHAKA URBAN LAB & TRAINING SCHOOL

The Dhaka Urban Lab + Student Competition had a total of 120 participants that included lecturers and students from five local universities as well as administrative staff from DSCC and consultants of the Design, Supervision and Monitoring (DSM) team in charge of the DCNUP.



Figure 25: Winners of the Student Competition

DESIGN BUILD WORKSHOP (Urban Furniture Making, Wall Painting, Feedback Exhibition)

The second set of activities conducted in the co-creation phase were public events that took place directly at the Shahjahanpur Jheel site. The main idea was to open up the participatory process to all neighbors and users of the public space. Many local people were reached through advertising the event beforehand on site (banners and flyers) as well as through the presence in the space during the activities.



Figure 26: Ongoing work in the Design Build Workshop



Figure 27: Final arrangement of urban furniture modules built with the community



Figure 28: Wall painting in process



Figure 29: Local people of all ages and genders were visiting the exhibition and giving their feedback

Acknowledgement

The World Bank

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Several collaborators from Bangladesh and Austria cordially developed inception reports, public space diagnostic reports, organize workshop for capacity building and participatory urban design process. Daffodil International university was academic partner with Superwien.

Authors and contributors of the report

Bandhan Dhar, Azka Eshita, Amran Hasan, Katharina Höftberger, Sabrina Hossain, Humayun Kabir, Roland Krebs, Sadia Humayra Mounata, and Sheikh Md. Rezwan.

Architecture and urban design

Vanessa Braun, Sara Hammer, Lennon Lee Hartmann, Katharina Höftberger, Roland Krebs, Stefan Mayr, Mario Volenszki, and Aknur Zhussip.

Interns

Abdullah Al Sanim , Md. Mashuk Ul Alam, Maisha Ibnat Mujib, Sayeed Nadim Hasan Pulok, Mostofa Adil Ur Rahman, Shafiur Rahman, Amit Krishna Sarker and Ahmad Abdul Wasi.





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POWER OF PARTNESHIP FOR
SUSTAINABLE DEVELOPMENT

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