

19-

portfolio

Noloyiso R. Mpofu



-23



As a fourth-year student at the University of Botswana, I am excited to present my architecture portfolio that showcases my passion for learning and my dedication to creating positive change through design. At the age of 22, I have already embarked on a journey of exploration, eager to absorb knowledge and push the boundaries of my capabilities.

Throughout my academic career, I have honed my skills in architectural design, spatial planning, and sustainable practices. By embracing an interdisciplinary approach, I have sought to incorporate innovative ideas from various fields, merging them with the principles of architecture. My portfolio reflects my commitment to evolve continuously as a designer, demonstrating a range of projects that exhibit my adaptability and willingness to embrace new concepts.

Personal Details

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Gaborone Botswana
Female
Nationality: Motswana
DOB: 09/06/2000

Languages

English: Fluent Zulu & Xhosa: basic understandin
Ndebele: Native Tswana: Fluent

Education

University Of Botswana
Bachelor in Architecture
2019 - Present

Naledi Senior Secondary School
BGCSE
2017-2018

Sir Seretse Khama CJSS
JCE
2014-2016

Skills

Graphics

Adobe Photoshop - Moderate
Adobe illustrator - Beginner
Adobe indesign - Moderate
PowerPoint - Moderate

Drafting/Modeling

AutoCad - Beginner
Sketchup - Moderate
Archicad - Moderate
Rhino - moderate

3D Visualisation/Rendering

Twinmotion - Moderate
Enscape - Beginner

Objectives

I seek a challenging and rewarding experience where I can learn as much as possible.

To have and learn of the architecture profession in a professional set up other than in the classroom.

Experience

Internship – June – July 2022

Troika Design Workshop, 19 Maiden Drive, Newlands, Harare, Zimbabwe

I gained a lot of experience in different aspects of architecture form renovations, how to run a site meeting, design and graphics as well as presentation skills.

Internship – June – August 2021

Design 360 Architects Plot 50667, Medical Mews Fairgrounds, Gaborone Botswana

Learning basic drafting skills, presentation skills and o had tremendous help improving my student portfolio.

Job shadowing – December 2016

Architects collaborative Bw | Private Bag BO241, Bontleng Post Office, Gaborone

Learning experience on the basic of architecture

Profesional Interests

Sketching
Reading architectural articles
Watching Architectural videos
Learning new software
Learning of sustainable architecture

Personal Interests

Music
Reading
Drawing
Print making
Sketching
Charity Work

Personal Skills

Critical thinking
Teamwork
Enjoy learning
Competitive
Love helping others

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Reimagining Segoditshane River

(revitalising and reimagining the segoditshane river)



Kaunda Student Hub

(mixed use and an urban fill building for students)



Community Serving Architecture

(Architecture that serves the community socially and economically)



White City Housing

(affordably housing solutions for the people of white city.)



Miscellaneous

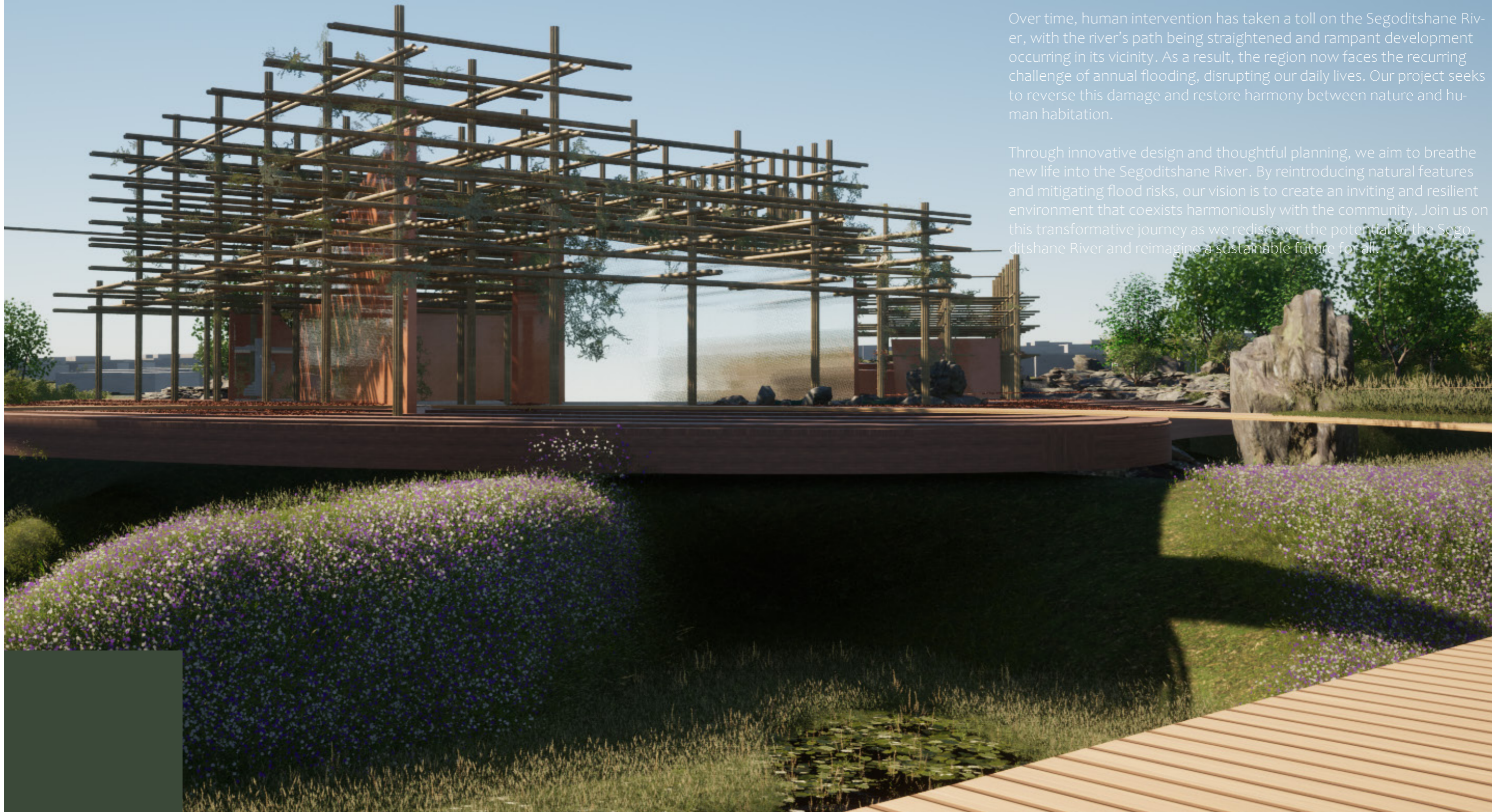
(sketches , drafting experience and other personal work)

Reimagining · SEGODITSHANE RIVER

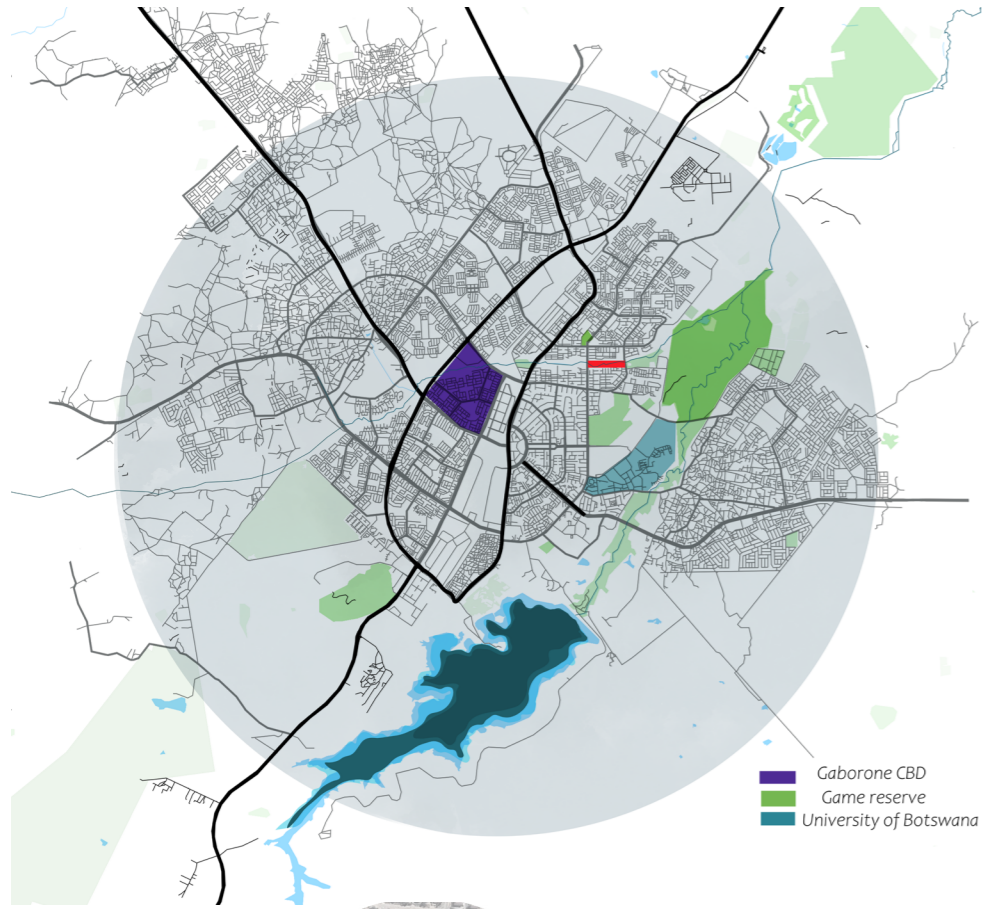
Welcome to “The Ecological Island,” a visionary project aimed at revitalizing and diversifying the existing ecosystem of the Segoditshane River. This endeavor embraces the concept of ecological islands, renowned for their ability to enhance biodiversity and positively impact the surrounding environment. By maximizing surface area in contact with the water, we strive to create an ecosystem that thrives and flourishes.

Over time, human intervention has taken a toll on the Segoditshane River, with the river’s path being straightened and rampant development occurring in its vicinity. As a result, the region now faces the recurring challenge of annual flooding, disrupting our daily lives. Our project seeks to reverse this damage and restore harmony between nature and human habitation.

Through innovative design and thoughtful planning, we aim to breathe new life into the Segoditshane River. By reintroducing natural features and mitigating flood risks, our vision is to create an inviting and resilient environment that coexists harmoniously with the community. Join us on this transformative journey as we rediscover the potential of the Segoditshane River and reimagine a sustainable future for all.



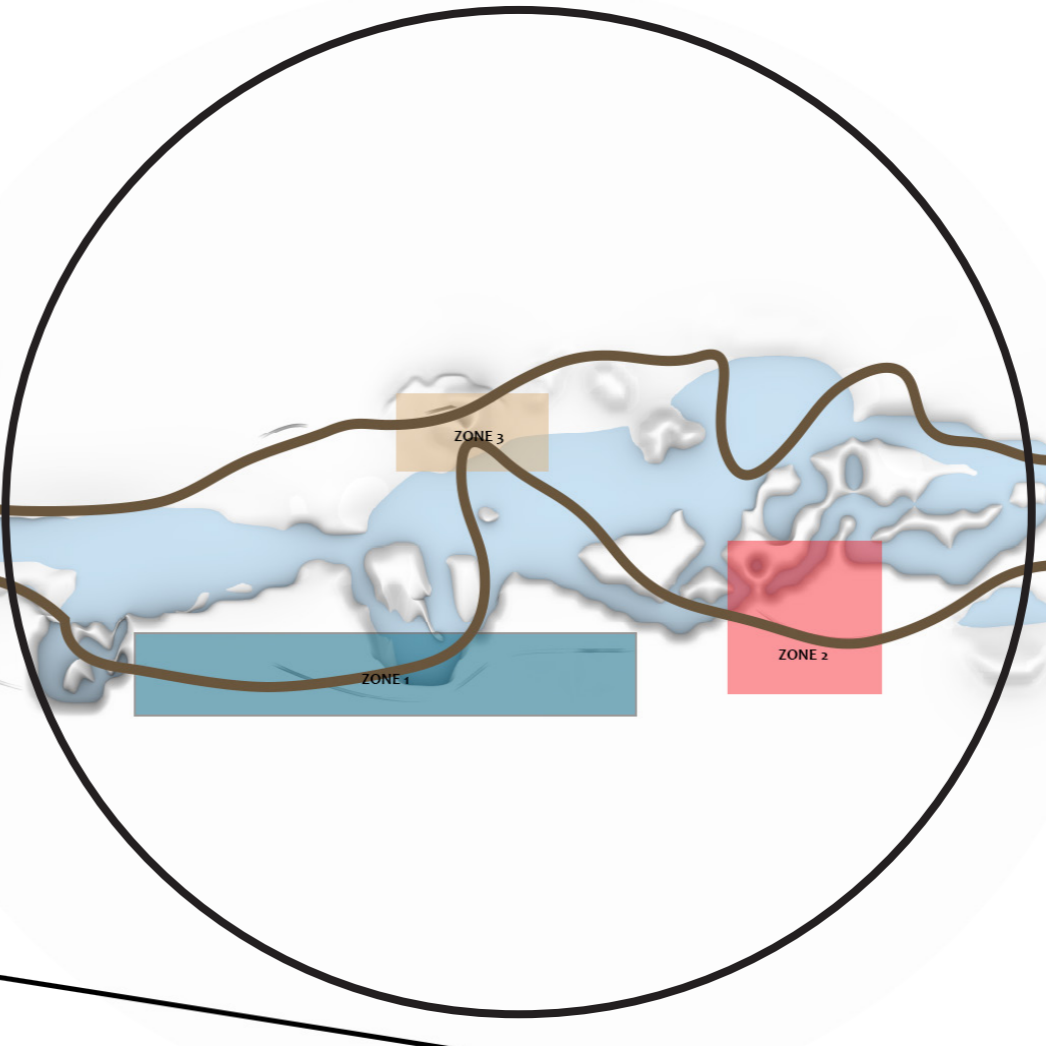
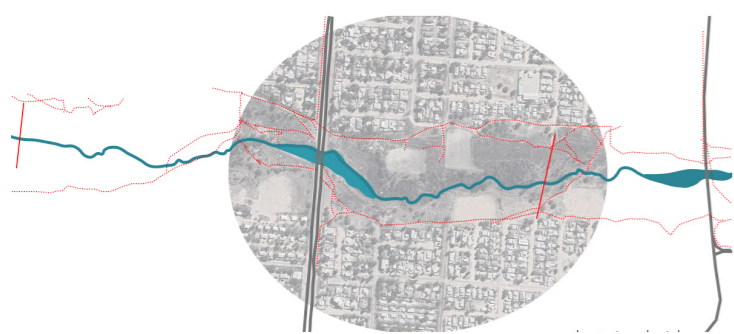
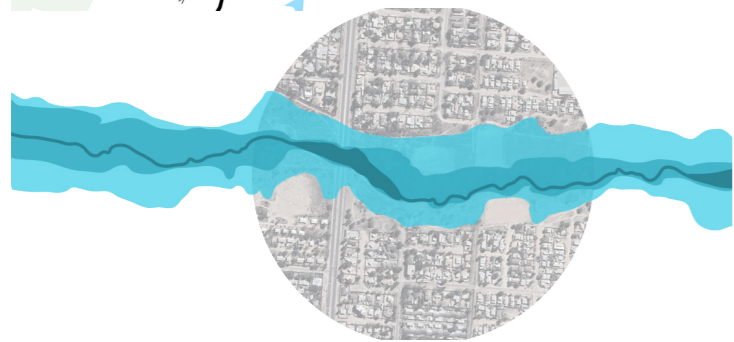
Site Analysis · SEGODITSHANE RIVER



The Ecological Island

Ecological islands are known to diversify and be a positive impact on the biodiversity and ecosystem of the environment they are in. The more surface area that touches the water the better the ecosystem.

Therefore this design is meant to revitalise and further diversify the exiting segoditshane river eco-system. Throughout time man has slowly destroyed it by straightening the path of the river and the continuous development nre and around it. this has greatly resulted in almost annual flooding that pauses our daily lives.



Zone 1

This zone includes the community revenue/econominc areas where there is a weaving village and a fish market.

Zone 2

This zone includes all the facilities available to the general public from entertainment areas, resturants as well as learning spaces.





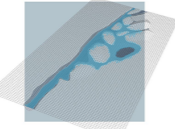




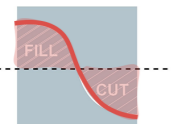
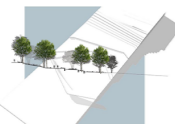




Zone 3

This zone includes the student housing and anemities for the students living in the area. this includes the undergraduate and graduate studies studen=ts.

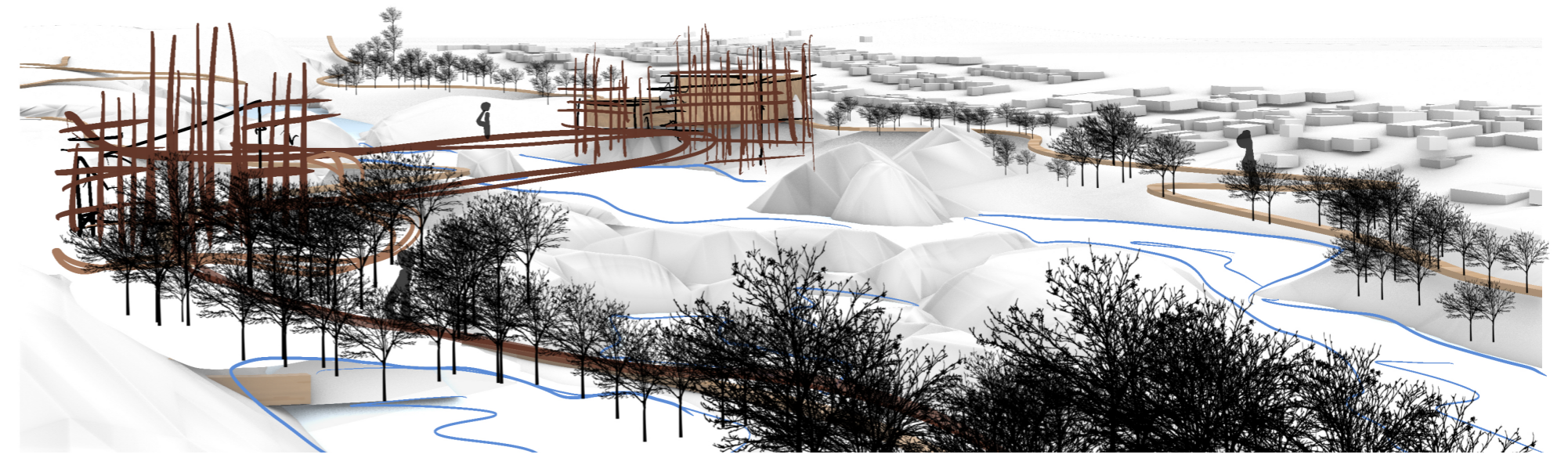
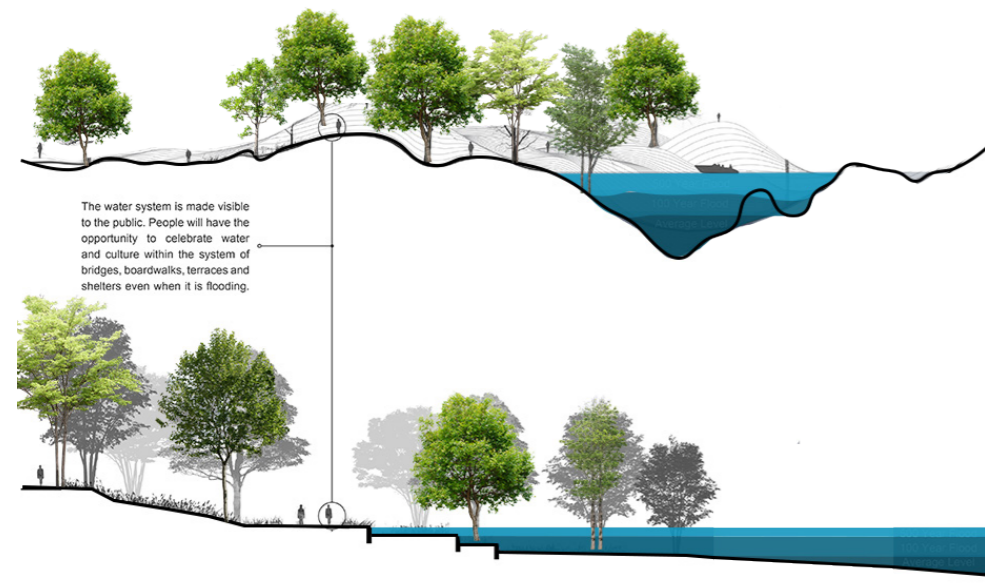
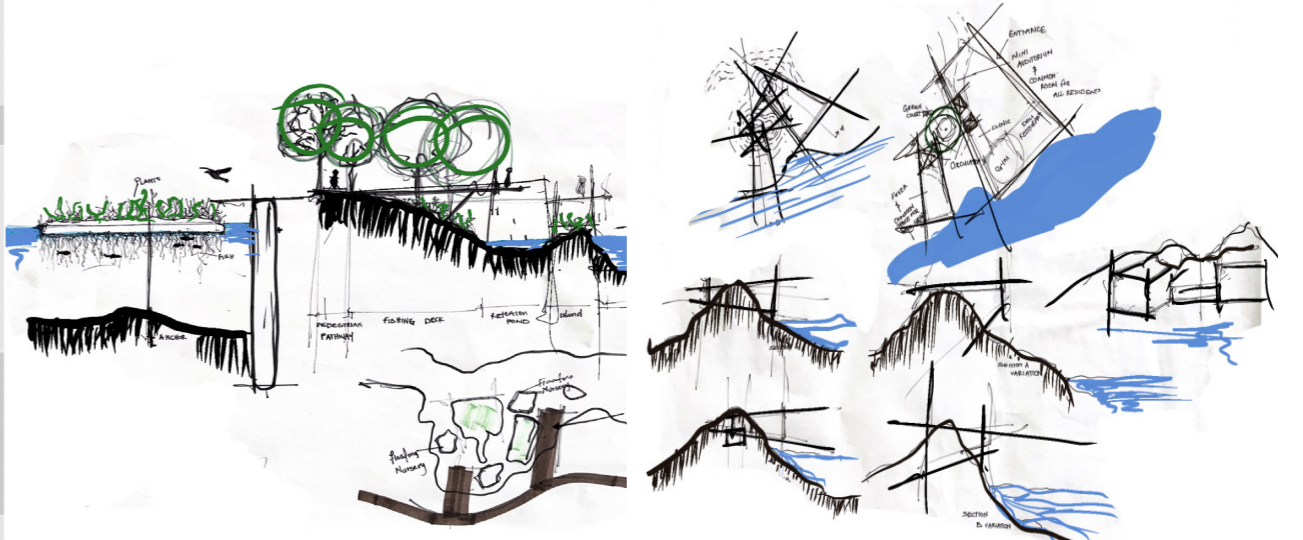
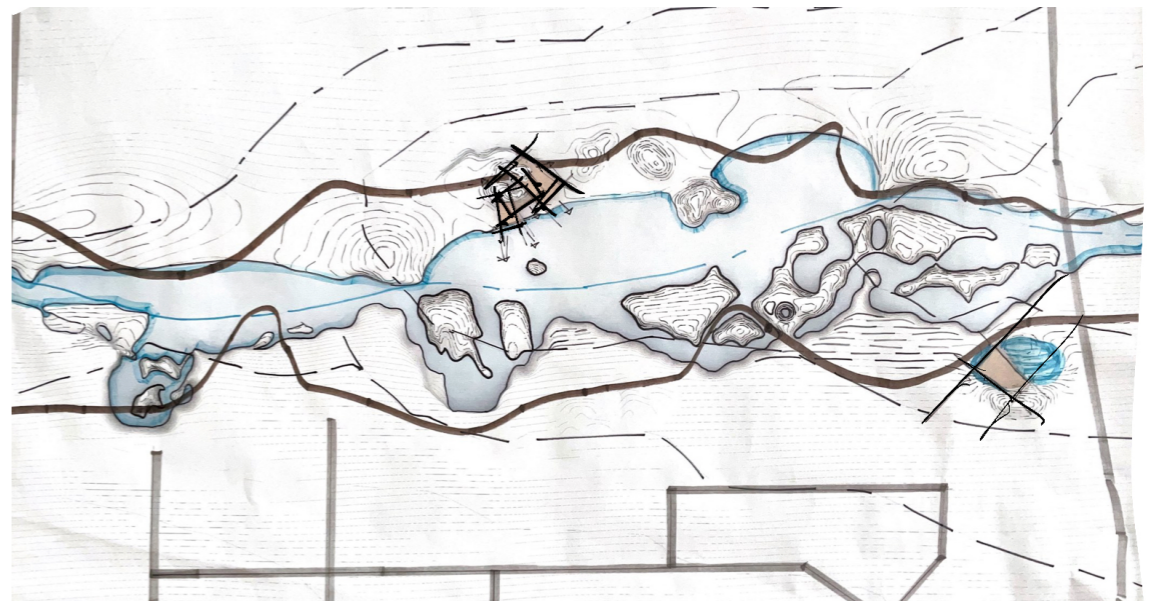


Concept · DEVELOPMENT

The site has the potential to be transformed into a sustainable ecological site that can be used to revitalise the segoditshane river as well as an educational site that will provide a dynamic waterfront experience and cultural identity.

<p>Water</p>  <p>Viewing Decks and Bridges A network of elevated trails and bridges proposed along and between the river and the islands creating a pedestrian system</p>  <p>Outdoor Gathering area Public open air areas for the community to come and use the space</p>  <p>Commercial Open air fish, weaving and food markets creating market districts that are job opportunities for the community</p>	<p>Program</p>  <p>Wetland Bring back the wetlands near and around the river providing a natural habitat for the marine and land ecosystems to thrive</p>  <p>Controlled flooding and islands The river will be engineered to give back its natural form. It gives the opportunity for more programs and a site for bird and butterfly sanctuaries.</p>  <p>Bio Swales Creating rain (storm) water cleaning passages along the green fingers that empty into the river.</p>
<p>Ecology</p>  <p>Urban Agriculture Bringing healthier and sustainably grown food to the community.</p>  <p>Urban Reforestation Keeping and optimising green and habitable spaces for people to walk and exercise on along side the river. This making a healthier community.</p>  <p>Aquatic & Riparian A mature ecological matrix is formed with wetland plant species that improves the water quality and stabilise the banks.</p>	<p>Earth Work</p>  <p>Integrating design into the land Trying to create a balance between the cut and fill of the land, as balanced earthwork is important.</p>  <p>Terraces Terracing the land form to try and keep the slope and creating opportunity for dynamic programs</p>  <p>Bank Stabilization Planting trees along side the river so as to stabilize the river in a sustainable way by keeping the water from washing away.</p>
<p>Education</p>  <p>Sanctuaries Creating bird and butterfly sanctuaries which will help revitalise the natural fauna and flora along the river as well as serve as a vessel for educating the public.</p>  <p>Water education Revitalising the river gives opportunity for it to be used for educating about natural water works by the schools and universities in the area.</p>  <p>Cultural The use of the reeds in the river in weaving and constructing shelters can continue the culture and practice through to the next generation.</p>	

Program	Key Function	Capacity of People Size (sqm)	Description
ZONE 1			
Administration	1. Managers Complex	24	This space is meant to house the administration duties of the entire space from the multipurpose educational zone to the student housing and on-site activities
	2. CFO Office	20	
	3. Office area x 4	(15x4) 60	
	4. Reception and lobby	24	
	5. Kitchenette and Staffroom	20	
	6. 16 pp Boardroom	40	
Public Gathering Space	1. Multipurpose gathering space	300	This includes all the space where the general public interact with the spaces on site. This may be indoors or outdoors.
	2. Exhibition Space	300	
	3. Ecological Island	350	
	4. Restaurant and coffee shop		
Educational Spaces	1. Public desk	24	These spaces are to cater for the educational side of the site where ecology, fauna and flora are taught, studied and learnt about.
	2. 6 Rentable computer labs	700	
	3. 2 seminar spaces for 50pp (Sub-divisible)	(75x2) 150	
	4. 4 seminar Spaces for 15pp	(25x4) 100	
ZONE 3			
Student Area	1. Undergraduate acc.	(80students)400	The Student area comprises of all spaces that involve the students living on site. These are to balance their live work and play activities.
	2. Graduate acc.	(50x 20)1000	
	3. Public forecourt	100	
	4. Reception	120	
	5. Deli and Coffee shop	200	
	6. Common space/ Auditorium	300	
Student Wellness Center	1. Waiting room	50	
	2. Reception and filing	30	
	3. 8 Consultation rooms	(15x8) 120	
	4. Medical Supply Store and Pharmacy	10	
	5. Gym	50	
Laundromat	1. Washing and drying area	50	
	2. Clothes sorting and drying	30	

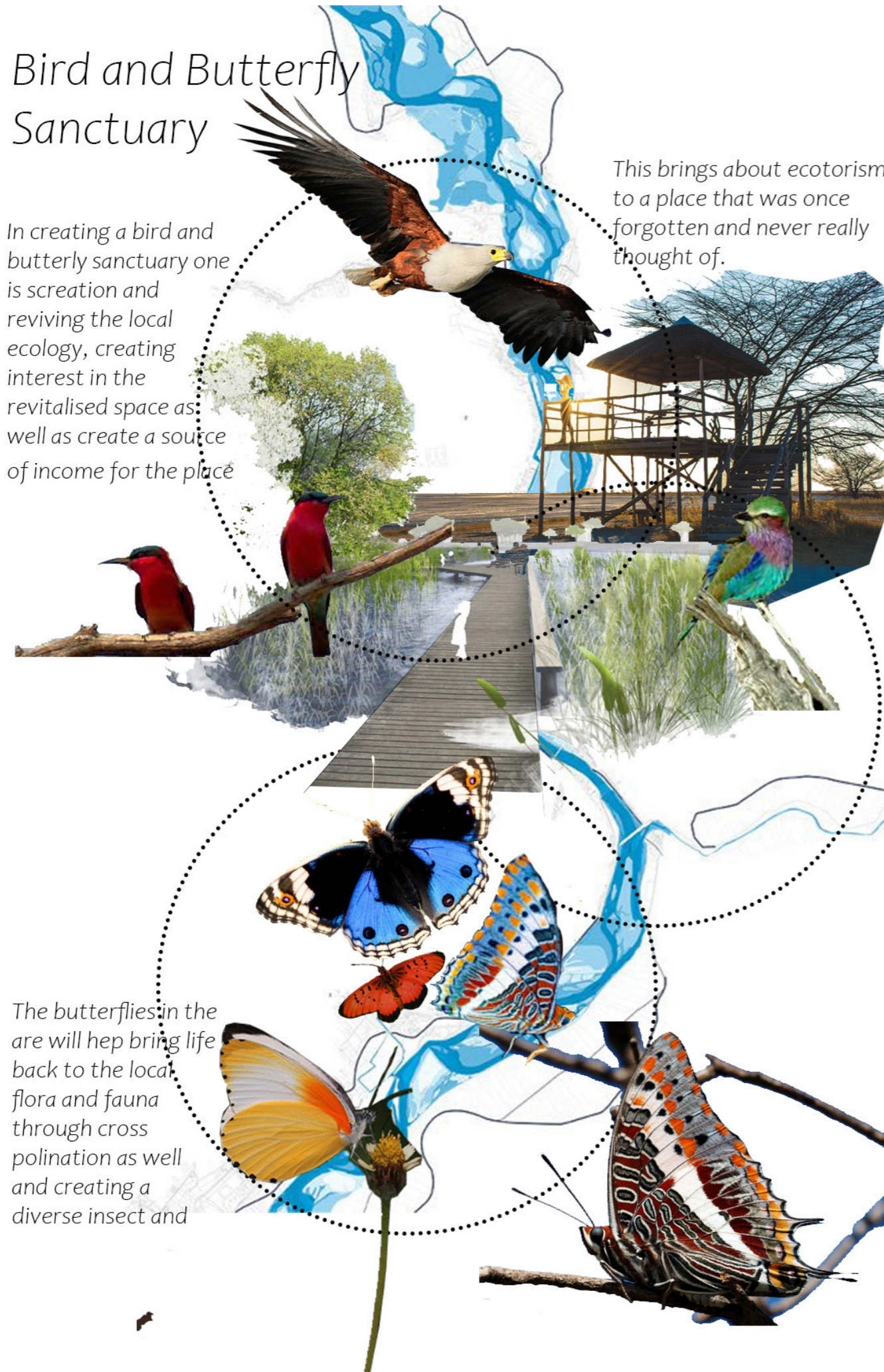


Reviving and Reinvesting · **SEGODITSHANE RIVER**

Bird and Butterfly Sanctuary

In creating a bird and butterfly sanctuary one is screation and reviving the local ecology, creating interest in the revitalised space as well as create a source of income for the place

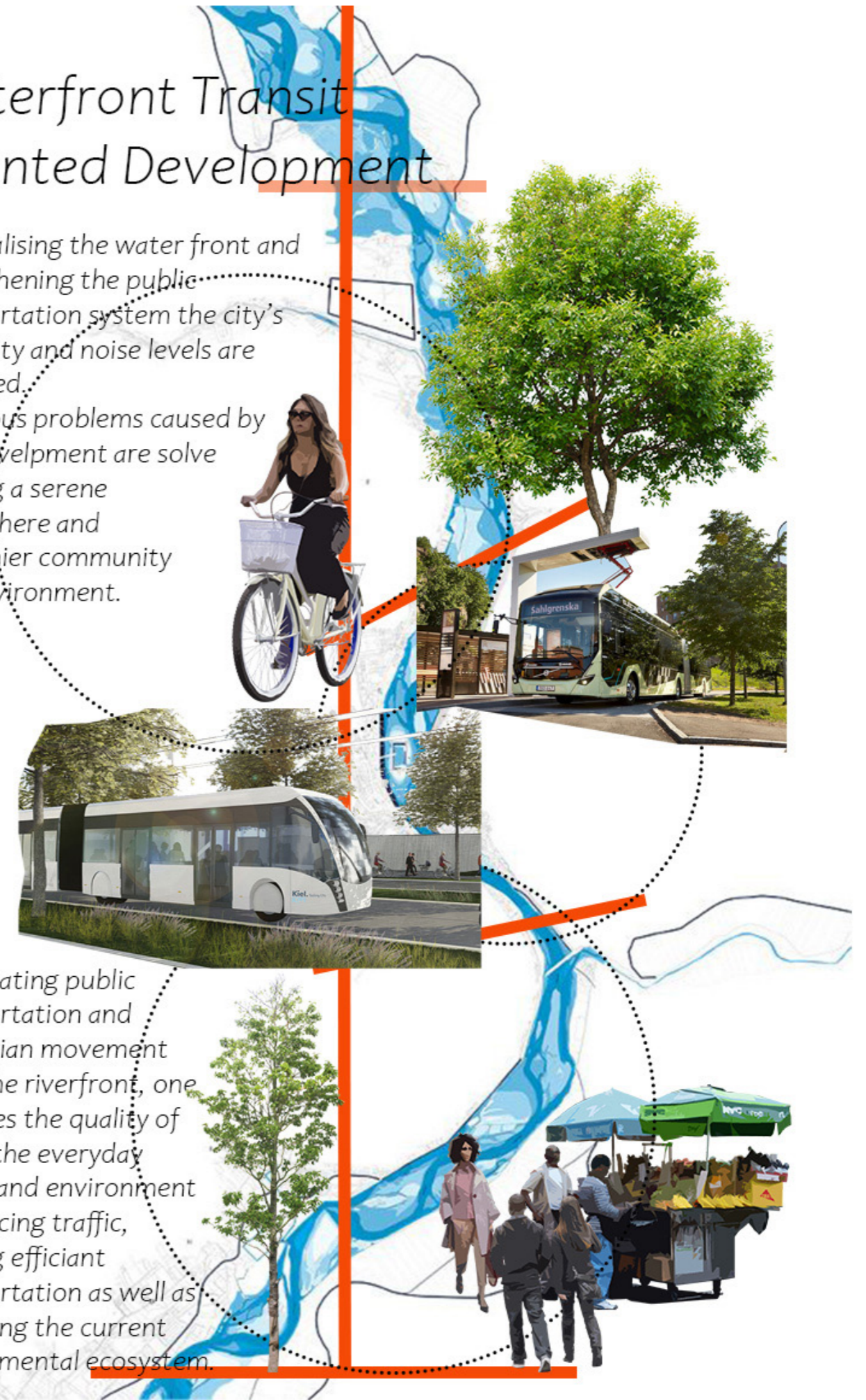
This brings about ecotourism to a place that was once forgotten and never really thought of.



The butterflies in the are will hep bring life back to the local flora and fauna through cross polination as well and creating a diverse insect and

Waterfront Transit oriented Development

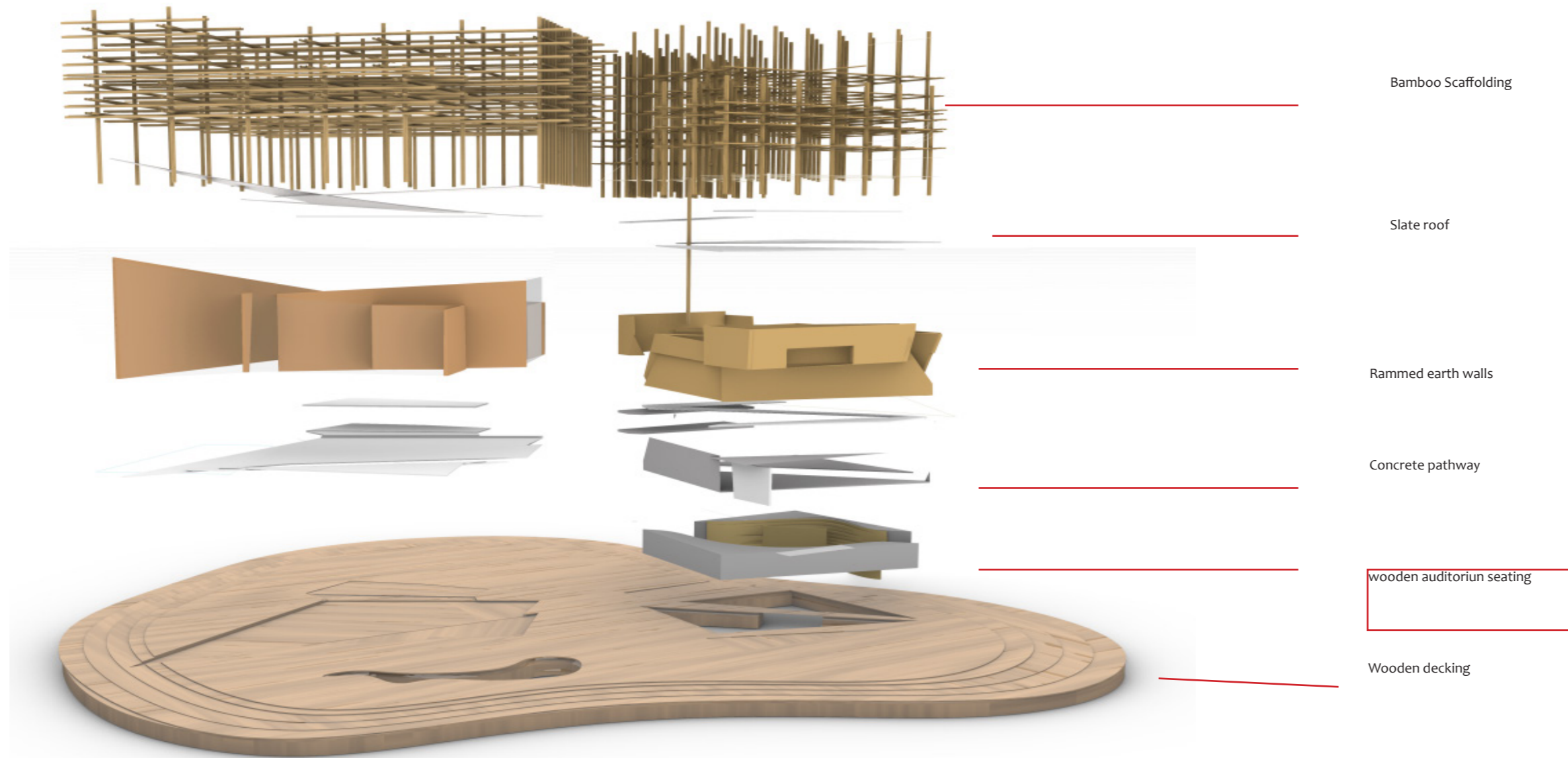
In revitalising the water front and strengthening the public transportation system the city's air quality and noise levels are improved. numerous problems caused by over development are solve creating a serene atmosphere and a heathier community and environment.



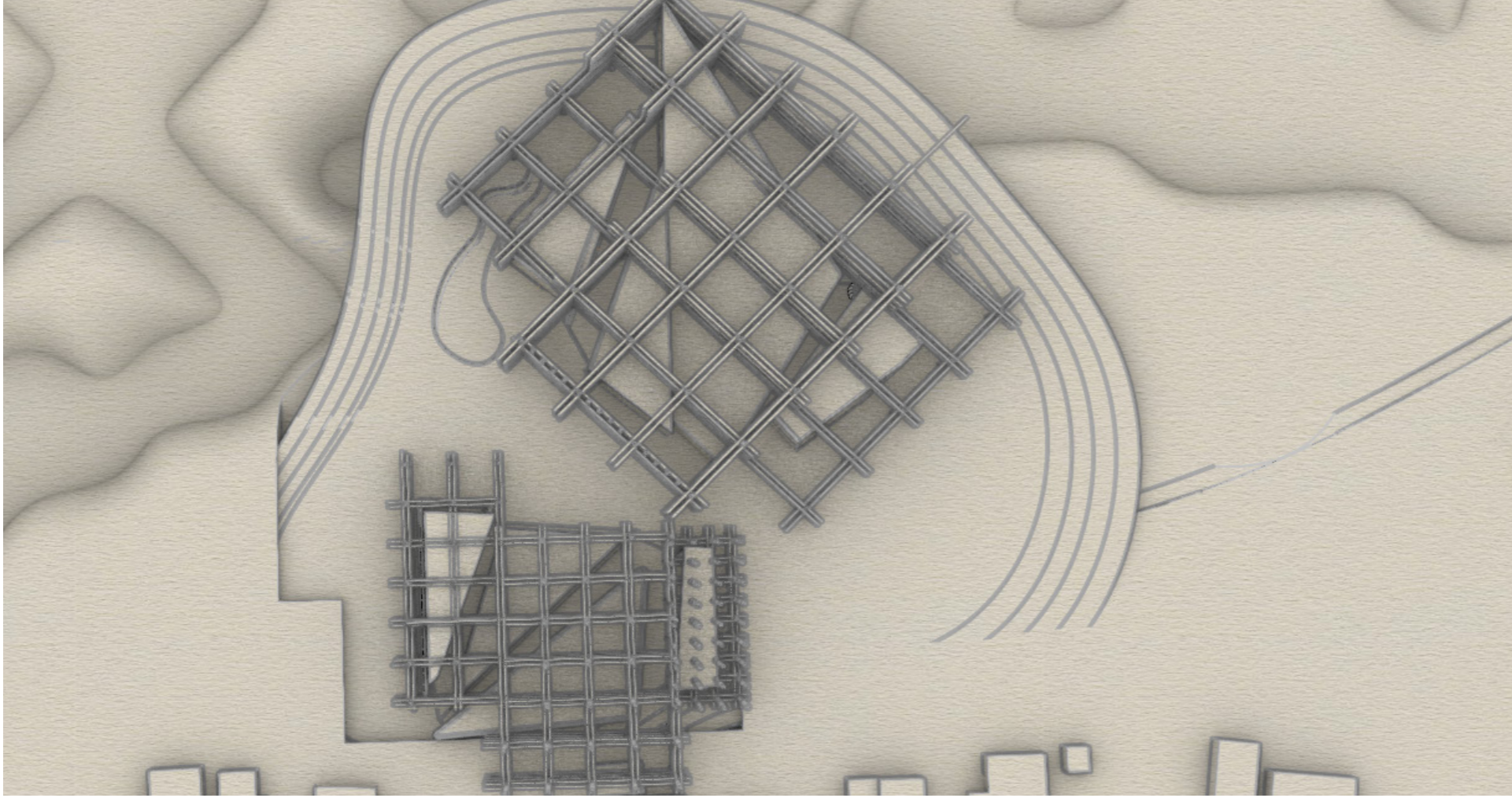
by activating public transportation and pedestrian movement along the riverfront, one improves the quality of life for the everyday person and environment by reducing traffic, creating efficient transportation as well as improving the current environmental ecosystem.

Reimagining · **SEGODITSHANE RIVER**

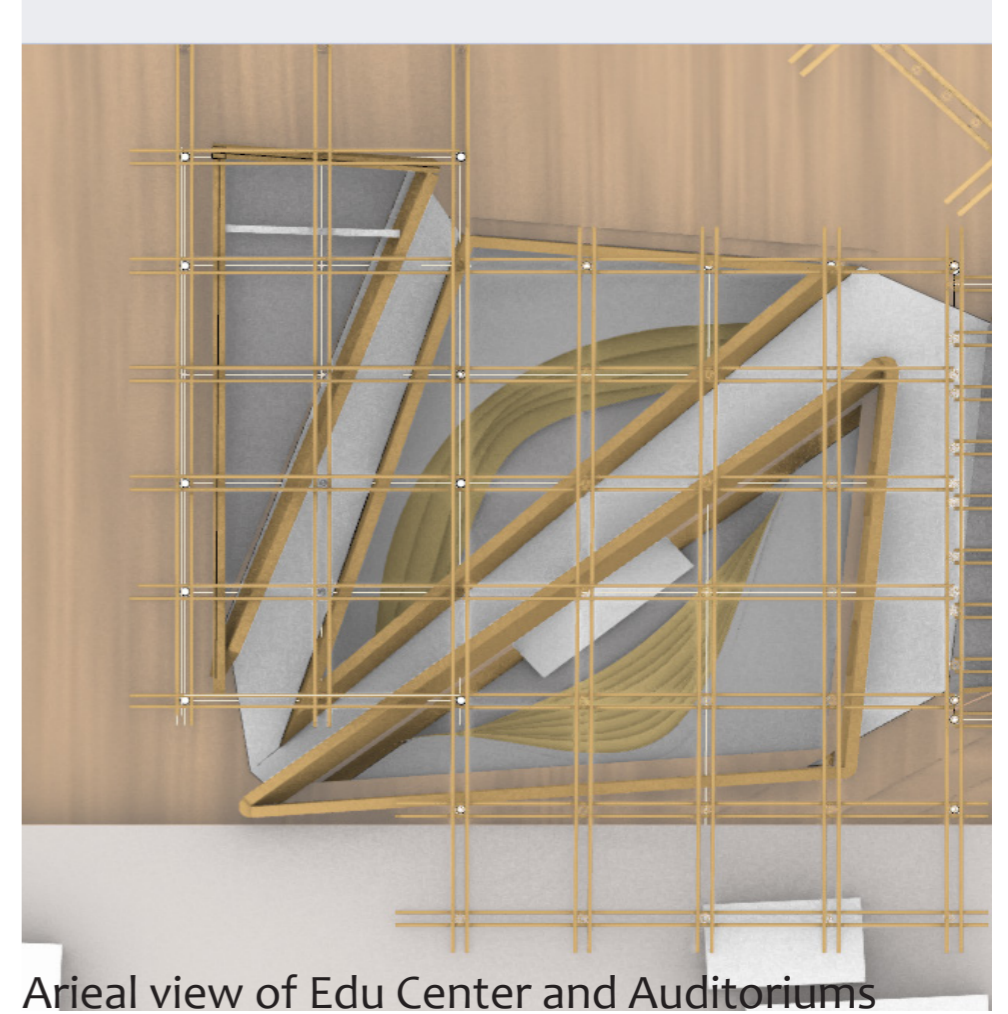
Exploded Axonometry · **Edu-Center and Exhibition**



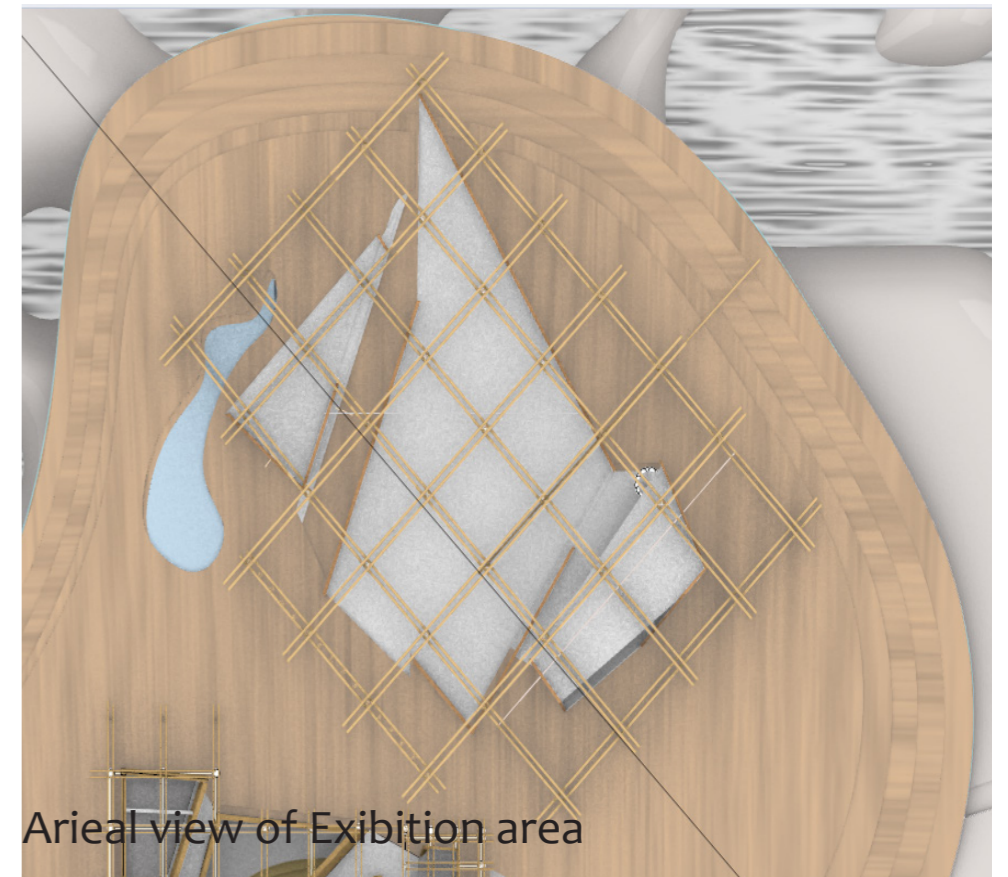
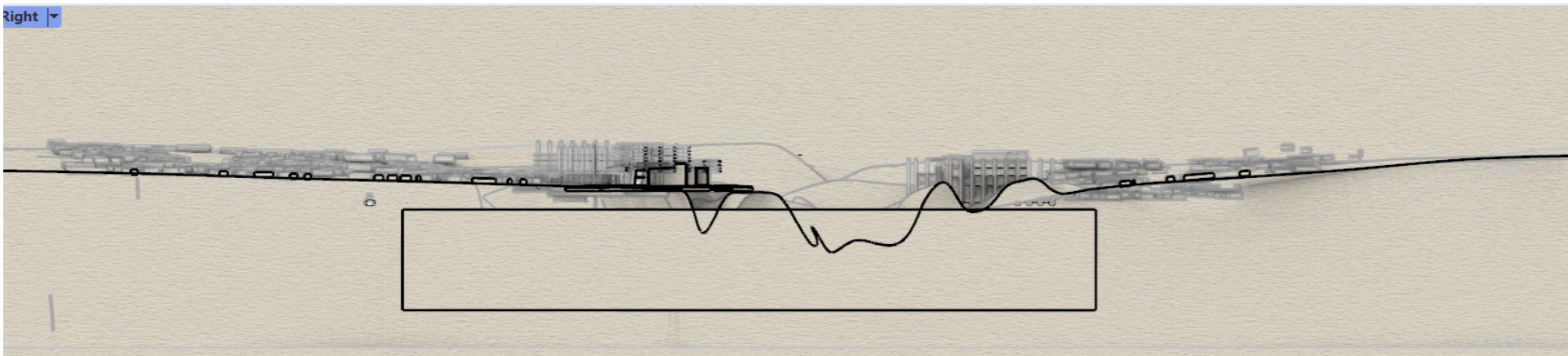
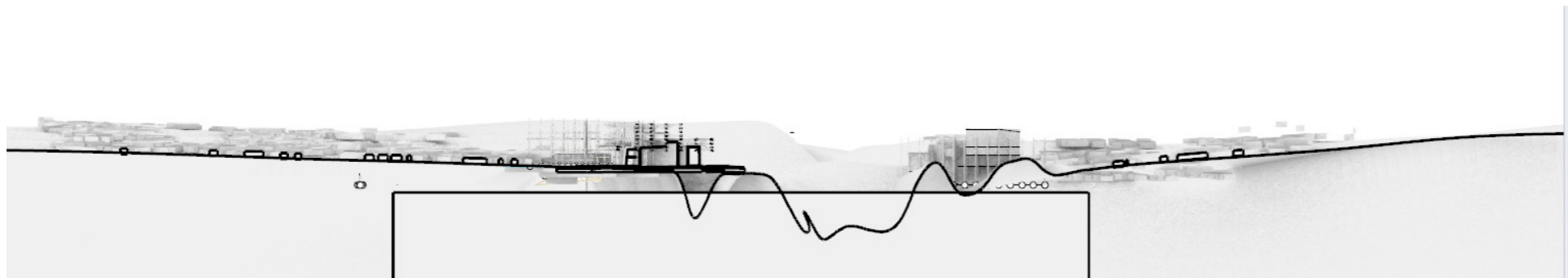
Reimagining · **SEGODITSHANE RIVER**



Aerial view of Edu Center and exhibition



Aerial view of Edu Center and Auditoriums



Aerial view of Exhibition area

