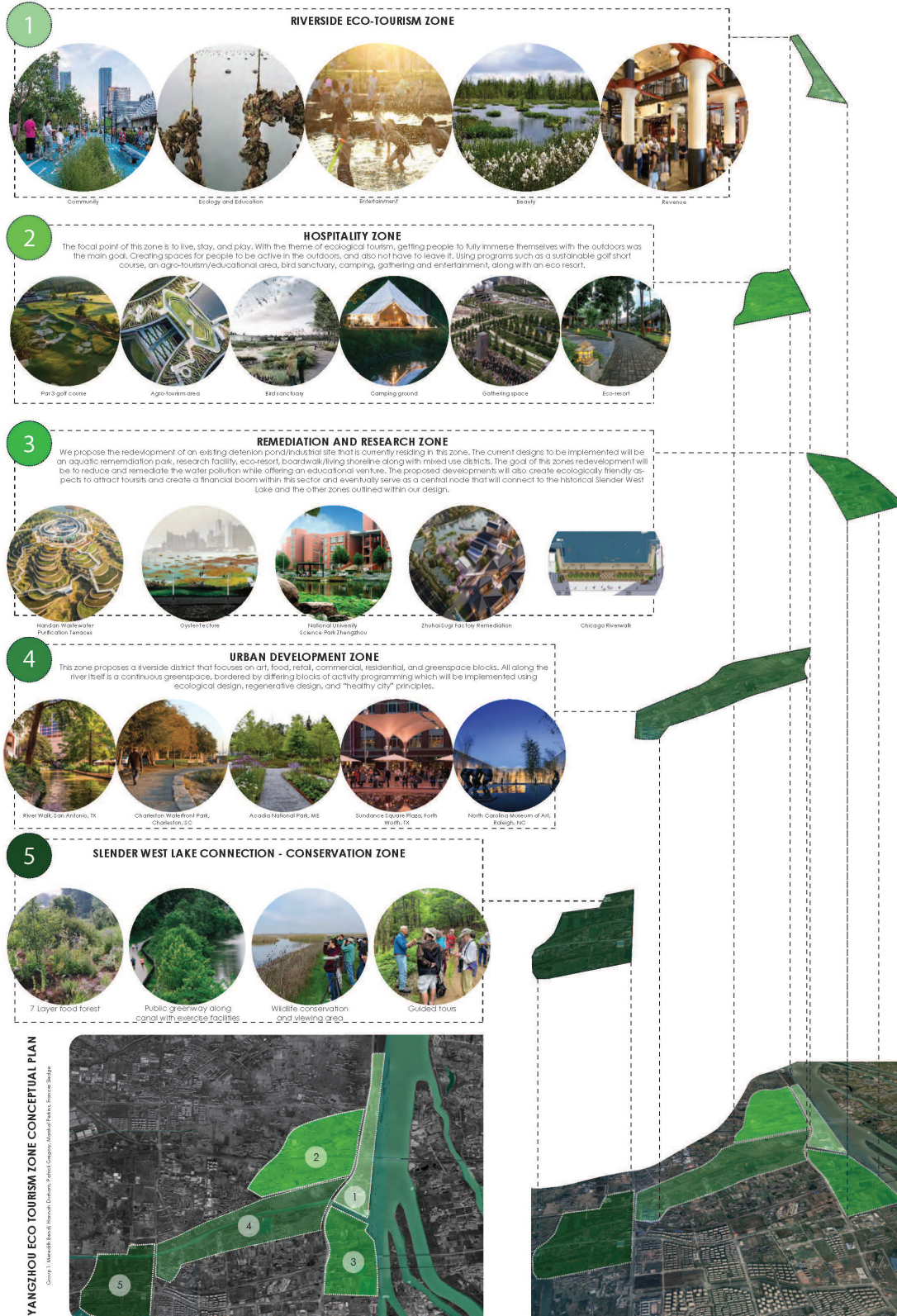


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PROGRAM ZONING AXON



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Yangzhou Eco Tourism



Community
Education
Conservation
Beauty
Entertainment
Revenue
Local Culture



Case Study:
Judron Mill in Greenville SC and
Ponce City Market in Atlanta GA

Existing Industrial Buildings upcycled into market space, vendors, housing, activities, dining, culture, and shops.



Case Study:
Weiliu Wetland Park

The urbanization of 2 cities: Xi'an and Xianyang, greatly harmed the ecology and identity of these regions which were once no land location areas of Wei River. The wetland park was constructed on the Wei River's floodplain outside of Xianyang City, which was one of the few naturally flooded river sections that remained. Today it's a gathering space and source of pride for the cities aiming to restore the natural ecosystem.



Wetland and Linear Park Design for Ecosystem, Residents, and Visitors



Chinas Runway
Park- Shanghai
China
3615-acre site was a runway for Longjia Airport reimagined into a linear park that honors the history of place, outdoor gathering space, play, and ecologically enriching to the local environment.

Case Study:
Delaware Estuary

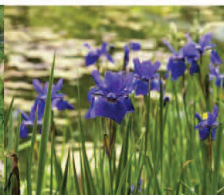
The Delaware Estuary began a project in 2000 called the Freshwater Mussel Recovery Program which aims to restore native species of freshwater mussel to streams, rivers and lakes in the upper mid-Atlantic region, particularly the Delaware River Basin.

An adult mussel can filter more than 10 gallons of water per day so a mussel bed can remove substantial amounts of microscopic particles, including many forms of pollutants, increasing water clarity, providing more light for bottom plants.

Mussel beds would be introduced in to the canal to clean the polluted water.



Mussels for Freshwater Purification



Design for
Beauty

This zone focuses on function, as well as beautiful form, plant selection, and materials.



Design for
Education

The education and research facility would be an engaging place for all ages to learn about the natural processes proposed in the linear park.

Design for Revenue

Electric boat tours would leave from the dock areas which are already popular in the Yangzhou area.

Boat rentals such as kayaks and paddle boats would be available for rent to see the canal from the water. Healthy, no fuel revenues.

A restaurant would be placed near the boat launch, rentals and tours.



1
Zone 1 will be programmed with a bird sanctuary. The blue zone will offer a large plot of land to be able to design an effective and beautiful bird sanctuary. Alongside streams of water and protected by eco designs this site will have added bodies of waters and plantings to attract migratory birds.

2
Zone 2 is designed to be a space for gathering and entertainment. Right off of the highway for easy access for visitors traveling in, and away from the other more quieter programming

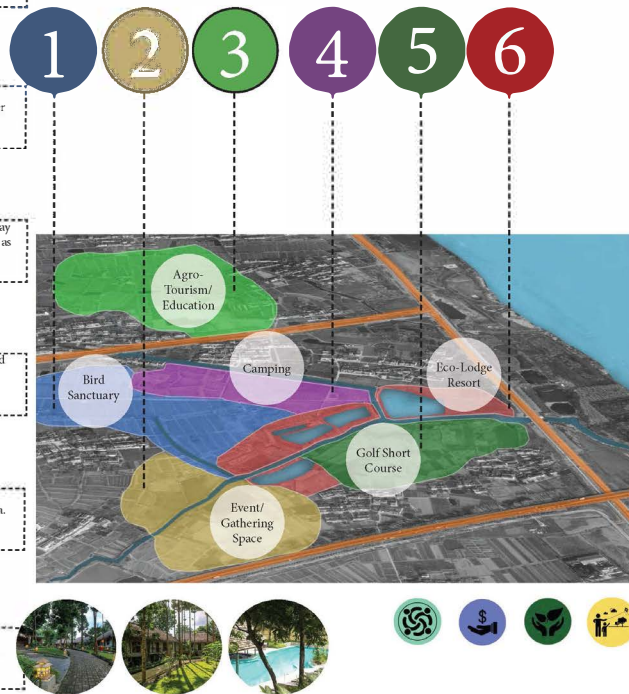
3
Zone 3 is designated for the agro-tourism/educational space. Having a lot of open land away from the heavy development, this area allows for a lot of agriculture to still be practiced as well as have educational space.

4
Zone 4 will be a space for camping/glamping. Providing sites along the water and tucked away with privacy. Having tents with lots, nature trails, and campfire set ups.

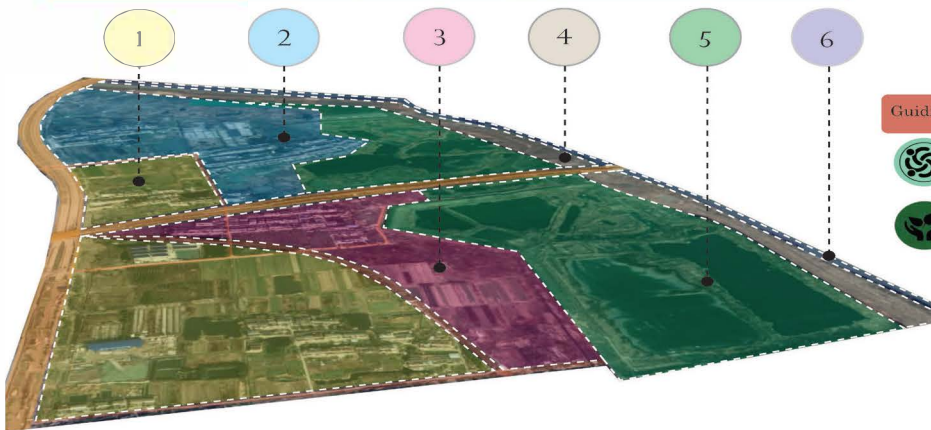
5
Zone 5 is going to host a par 3 golf short course. Being low impact, walking only, using native plantings, and using bio-islands to provide natural habitats for animals in the area.

6
Zone 6 will be designated off an eco resort. Creating lodges and letting nature take over, allowing for a visitor to be immersed in nature the entire time on site. Having dense plantings and programmings such as pools, trails, lodges, and central clubhouse.

Yangzhou Zone 2: Hospitality

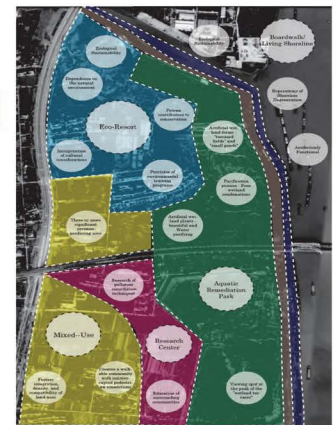


Zone 3: Proposed Design Locations



Conceptual Analysis

Guiding Principles



1. Mixed-Use

Blends multiple uses, such as residential, commercial, cultural, institutional or entertainment, into one space, where those functions are to some degree physically and functionally integrated and that provides pedestrian connections.



2. Resort

An eco resort should not only protect and enhance the natural environment, but also provide a place where the community can enjoy the outdoors. The resort should be designed to provide a place where the community can enjoy the outdoors, with a focus on sustainable development and eco-tourism.



3. Research Center

Creating communities that are compatible with nature's processes for sustaining life requires basic ecological knowledge. This research center should provide an understanding through:

- 1. Networks
- 2. Nested Systems
- 3. Cycles
- 4. Flows
- 5. Development
- 6. Dynamic Balance



4. Boardwalk

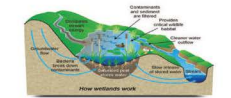
The boardwalk will be built with the idea of sustainability and aesthetic at the forefront. Using materials that have low impact on the environment along with living a connection to the living shoreline. Looking to reduce or control:

- 1. Foot Traffic
- 2. Erosion and Ground Compaction
- 3. Unnatural Rainwater Runoff



5. Remediation Park

The remediation park will be in connection with the research center, and the eco-resort to provide seamless flow through the site. The park will be designed to provide a place where the community can enjoy the outdoors, with a focus on sustainable development and eco-tourism.

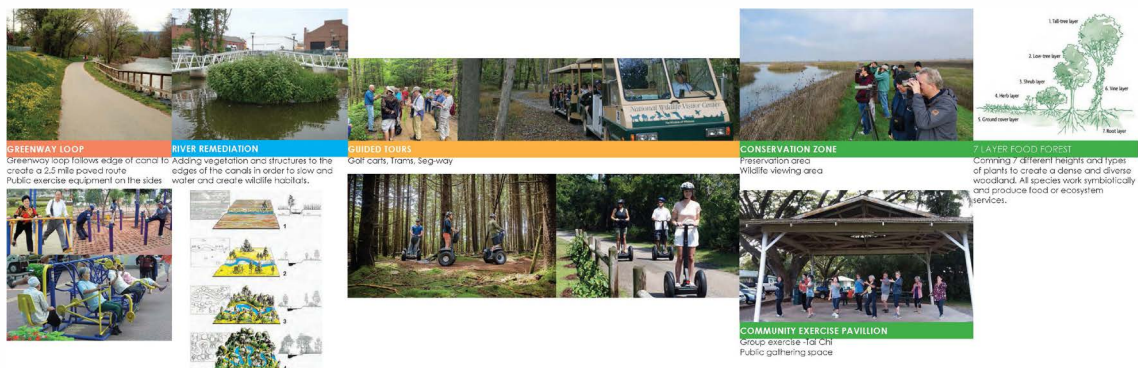
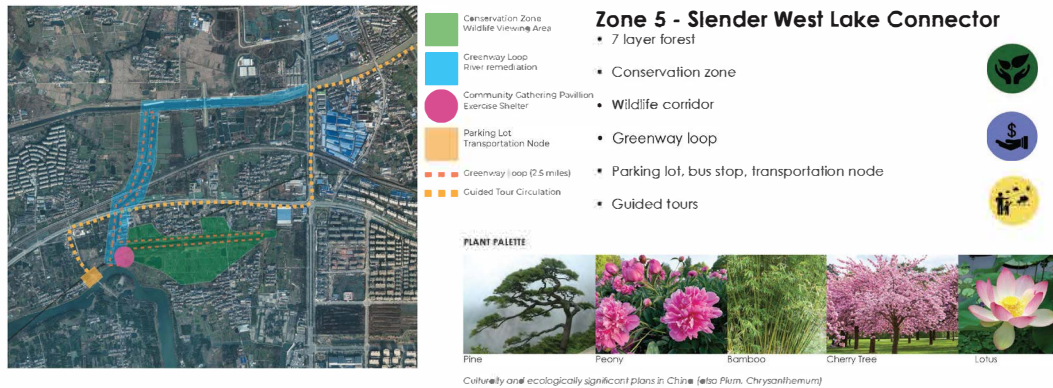
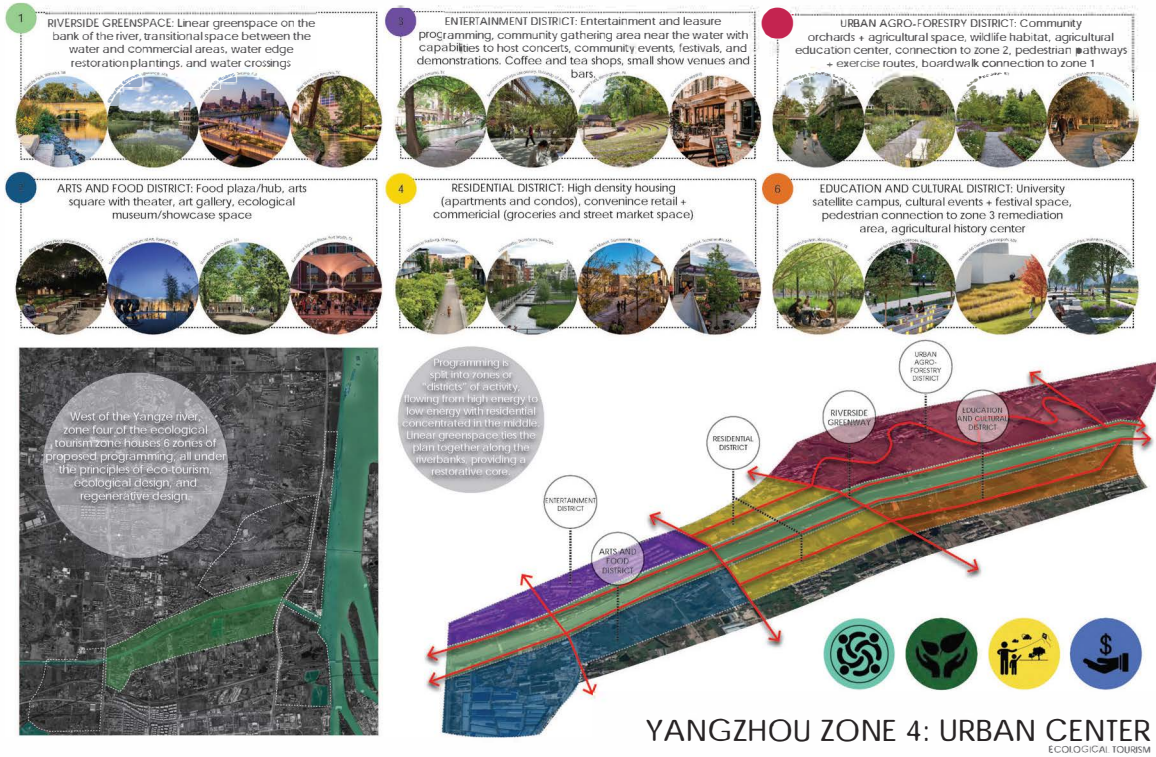


6. Living Shoreline

This living shoreline technique includes new plantings, replanting, and maintaining existing vegetation. Living shorelines use predominantly native vegetation. There will be several techniques to analyze upon implementation:

- 1. Native Wetland Plants
- 2. Stone and Rock Structures
- 3. Oyster Beds
- 4. Mussels
- 5. Submerged Aquatic Vegetation
- 6. Core Fiber Logs
- 7. Sand Fill





Sharm El Sheikh

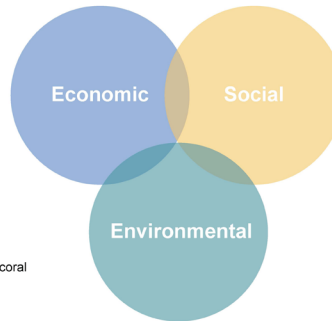
Naama Bay - Conceptual Analysis

Sustainable Development & Community Vibrancy



Literally, **sustainable development** refers to **maintaining development over time**. It is widely accepted as a desirable policy objective amongst many institutions **concerned with the future development of the resources of the globe**.

Community vibrancy was described as the number of people in and around streets or neighborhoods. Now, it is commonly associated with **activity intensity, the diversity of land-use configurations, and the accessibility of a place**.



Sustainable development is a

challenging social process. The different objectives of society - **social, economic and environmental** - need to be integrated where possible, and traded-off where they are incompatible. Institutional and individual roles and responsibilities have to change, so that new patterns of behaviour will foster sustainable development.

Environmental Strategies

1. Utilize infill opportunities to conserve natural resources.
2. Encourage people to protect the environment(the degradation of coral reef), enhance the awareness of sustainable development
3. Connect environment issues with people's participation.
4. Create interactive activities and spaces with environmental elements.

Economic Strategies

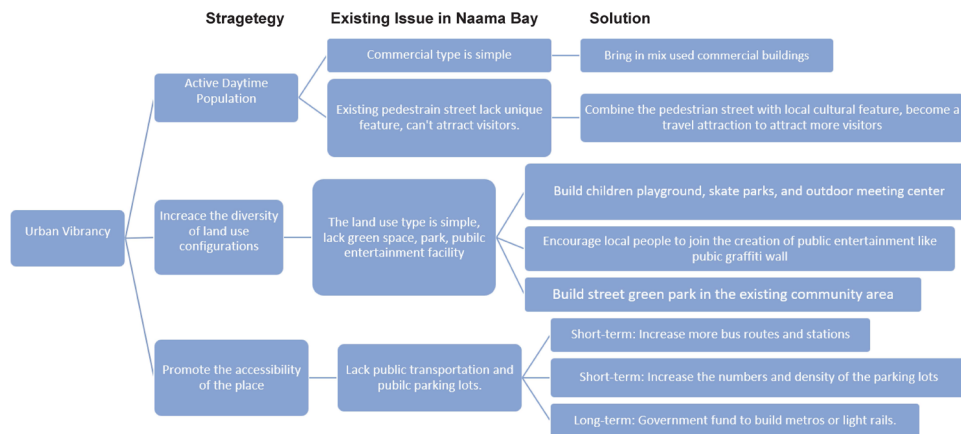
1. Focus housing and job growth within existing urbanized areas giving people greater accessibility to job opportunities, high quality transit and active transportation options, and amenities.
2. Build more bus stations, traffic infrastructures, expand the duration in a commercial place
3. Invest in expanded transit networks and service frequency.
4. exploit vacant space and expand traffic circulation
5. Invest in biking and walking infrastructure to improve active transportation options.
6. Invest in transportation demand management programs such as carpool/ vanpool, carshare, and parking supply management.
7. Plan for homes at a range of densities and affordability levels near job centers.

Social Strategies

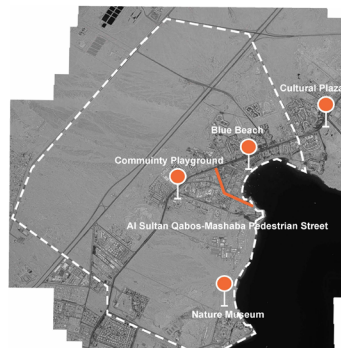
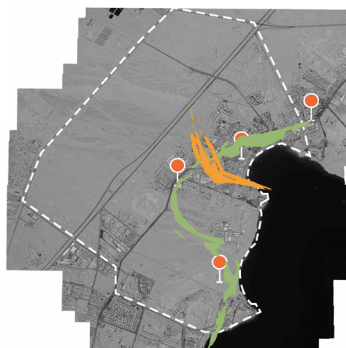
1. Build some participation landscape like graffiti wall.
2. Meet the demand of family with children and build street play area for this group.
3. Promote spatial community concentration such as build public meeting area.

Strategies Benefits

- There will be many benefits the strategic implementation bring to sharm el sheikh including:
- Improved Public Health
- More Mobility and Housing Choices
- Increased Accessibility to Daily Destinations
- Natural Resource Conservation
- Social Equity
- Lower Building Energy and Water Use
- Economic Opportunities
- Strengthen public participation
- Demand the demand of different types people
- Promote community gathering
- Activate community vibrancy



Proposed Projects



- **Cultural Plaza**
Provide tourism service and remark a start of Naama Bay resort area
- **Blue Beach**
Combined with interactive settings, provide a recreational and functional area
- **Community Playground**
Offer a openspace for children and residents, remark the end of Naama Bay resort area
- **Nature Museum**
Present the history of nature resources in Sharm el Sheikh, especially red sea eco-system
- **Al Sultan Qabos-Mashaba Pedestrian Street**
The main street in the Naama Bay Area. As a connection between El-Salam and Naama Bay, the street is proposed to be designed as a pedestrain street

Sharm El Sheikh

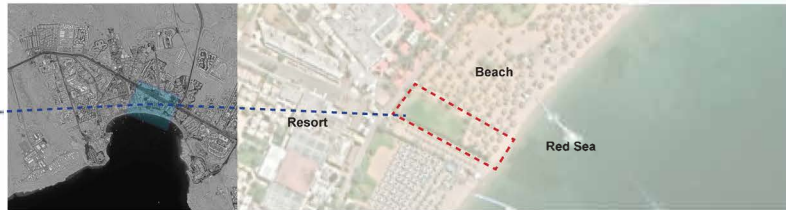
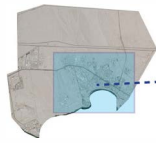
Naama Bay - Conceptual Analysis

Sustainable Development & Community Vibrancy



Proposed Projects

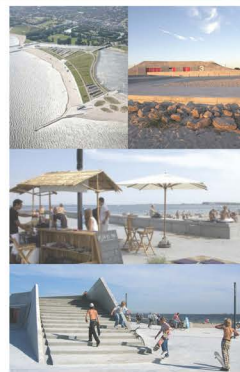
Blue Beach



Naama Bay is the tourism hub of Sharm el Sheikh. The area has the most largest population in the city. Along with shoreline, there are lots of diversified activities in the daytime, like diving, sunbathing, playing in the waterpark, visiting the attractions. I think of there could develop the diversity of the activities either in the nighttime. Expanding the duration the beach could stimulate social and economics development in this area.



Magical Shores at Siloso, Singapore



Amager Beach, Denmark

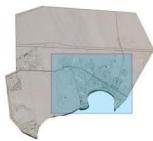


Sugar Beach, Canada

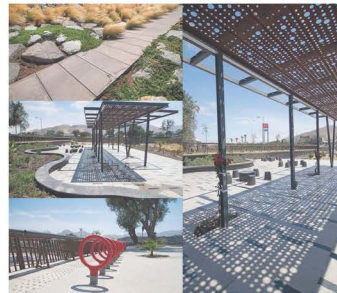
Modern
Featured Infrastructure
Nighttime
Active Beach
Recreational



Cultural Plaza



Surrounded by resort, this area would be a start of Naama Bay area. In this area, mainly offer offerr a tourist service to the visitors, like building a tourist service center, bicycle spot, displaying the urban culture, especially the Naama Bay.



Kaukari Urban Park, Chile



Desert X AlUla Visitor Centre



Bida'al Mutawa Emirati Housing

Multi-functional
native plants
Service area
start of Naama Bay
Competition
Walkable



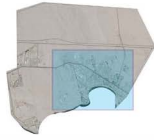
Sharm El Sheikh

Naama Bay - Conceptual Analysis

Sustainable Development & Community Vibrancy



Community Playground



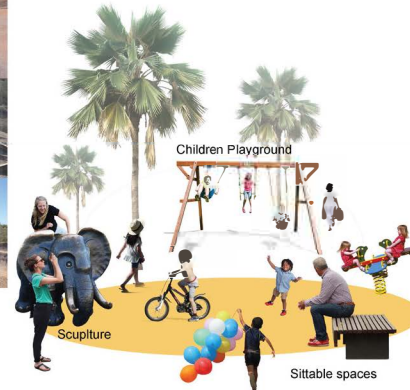
The site is close to the sharm college international school. Combine with the remark of end of Naama Bay, the funtion could be a children playground and community park. Base on the existing condition, could make some bike trail and playground settings.



Provide playground space
stimulate biodiversity
end of Naama Bay
Community park
Educational

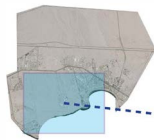


Desert Trails Bike, USA

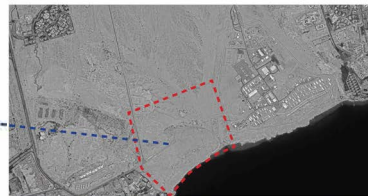


Vallmora Park, Spain

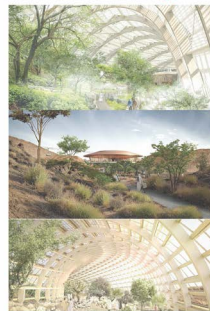
Nature Museum



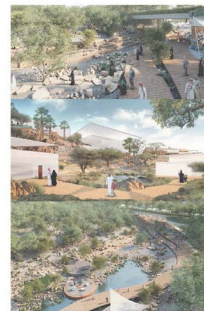
Except the tourism hub along the shoreline, Nature Museum would be a new landmark in the western side. The desert landscape is very unique and could be display with landscape design outside the nature museum, like native botanic garden, greenhouse, water scape, dry riverbed, etc.



Enjoyable
Typical Dessert landscape
Native plants commercial activity
Natural stimulate biodiversity
Environmnet Protection Awareness
Red sea system related



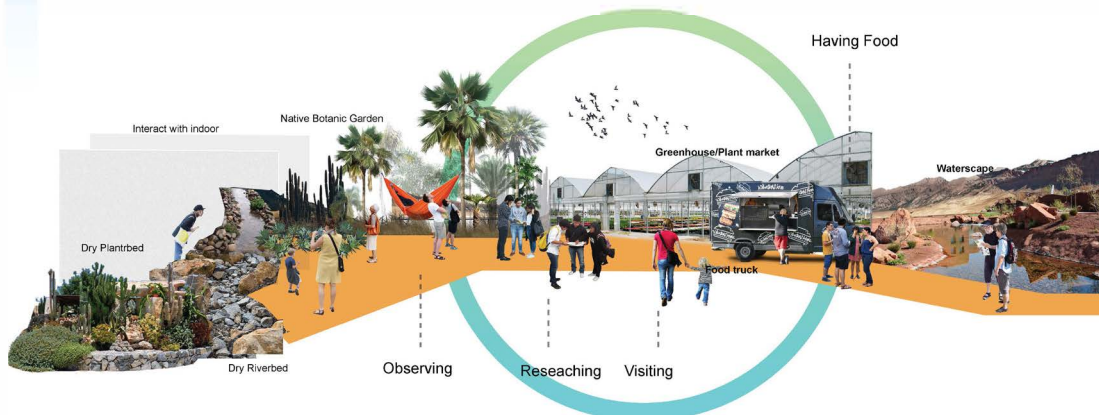
Oman Botanic Garden, Oman



Township Masterplan, Riyadh, KSA



Green Mubazzarah Upgrade, Al Ain, UAE



Sharm El Sheikh

Naama Bay - Conceptual Analysis

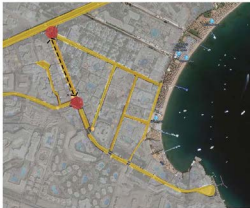
Sustainable Development & Community Vibrancy



Al Sultan Qabos Pedestrian Street

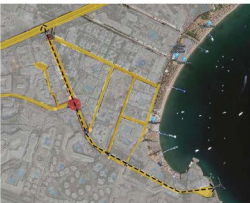


This is the main street in the Naama Bay area. As a connection between El-Salam and Naama Bay, the street is proposed to be designed as a pedestrian street and aim to promote the sustainable development and community vibrancy, the street is divided into several parts and work for different demand. And each part have unique style to make this area more attraction and vitality.



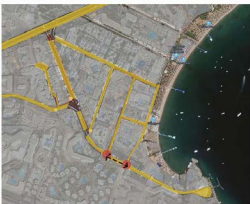
Existing Street is the biggest pedestrian street in the Naama Bay area, and there are many restaurants and specialty shops on the street, and it is also a main travel attraction.

Gathering Center



For this intersection it connect the existing street and proposed street. For this gather center, It's mainly designed for a center of this street and some interaction facilities may be placed here. And the style of this plaza might be Vernacular Bedouin.

Play Street



Play street pay attention to the demand of the family with children, playing area is essential for them. Utilize the side of the pedestrian street to create a play street for children.

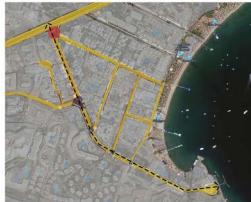
Al Malak Abd Allah Avenue



Avenue connect Naama Bay and existing pedestrian, including some features, and some bench for pedestrian to rest.

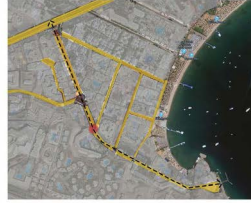


Sharm Square



Intersection between three streets, Al Sultan Qabos-Mashaba, Hussein Salem, and El-Salam. This intersection will be designed as a entrance of the pedestrian and some fountain here.

Graffiti Wall



Graffiti Wall encourage local people to join the creation of the graffiti wall, make the wall become a participation landscape, enrich the community decoration and attract more visitors.

Naama Bay Beach Plaza



Create an open space as the connection node between the pedestrian street and beach. Aimed to design some shared outdoor dining seats and reshaped core infrastructure and created new landmark amenities within an inspiring and cohesive public space. Brought the water "closer" in terms of visual connection and access.

Sharm El-Sheikh, El Hadaba

Sustainable Tourism + Sustainable Development



Sustainable Tourism + Sustainable Development

Tourism:



The temporary movement of people to a destination outside the places where they normally live, work, and play, as well as the activities in which they partake.

- Cultural Preservation
- Ecological Processes
- Biodiversity
- Development of Societies
- Economic Expansion

Development:



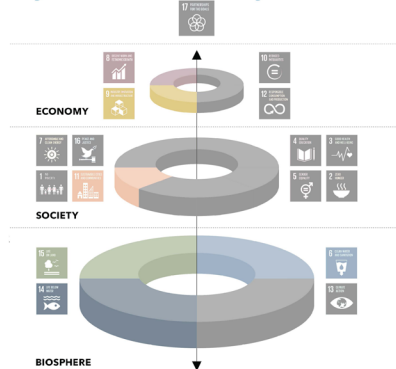
Sustainability is a way for thinking about the future in which environmental, societal and economic considerations are balanced in the pursuit of an improved quality of life and culture.



Sustainable Development Goals



Layers of Sustainability



Sustainability Objectives



LIFE ON LAND:

- Protect and restore water-related ecosystems, including mountain run off forests, wadis, aquifers, and lagoons
- Bioremediation of polluted areas
- Increase scientific knowledge of our sustainable efforts through research
- Provide access to small scale local artisan fishing markets
- Reduce degradation of sensitive habitats and educate their importance to survive
- Aquifer replenishment strategies



DECENT WORK AND ECONOMIC GROWTH:

- Commercial enterprises like restaurants, local shops, and attractions and activities
- Local Artist Fairs
- Employment Opportunities
- Promotes local culture and local products
- Strengthen the connection between rural economy and tourist economy
- Higher levels of economic productivity through diversification
- A focus on high-value added products and labor-intensive sectors



INDUSTRY, INNOVATION, AND INFRASTRUCTURE:

- Port Development
- Outdoor Plaza
- Dock configuration
- Educational Opportunities and Materials - ecosystem education
- Research Opportunities
- Upgrade and retrofit existing infrastructure to meet the new sustainable goals
- Safeguarding cultural heritage sites



SUSTAINABLE CITIES AND COMMUNITIES:

- Affordable Public Transportation/ Alternative means of Transportation
- Encouraging recycling initiatives
- Reduction of solid and energetic waste
- Responsible consumption
- Sustainable production by using renewable resources when possible



CLEAN WATER AND SANITATION:

- Public bathrooms
- Ability to access clean drinking water
- Improve water quality by reducing pollution by eliminating dumping and minimizing the release of hazardous chemicals and materials
- Recycle and safely reuse the untreated wastewater
- Capture flash flood surface water for the replenishment of underground aquifers
- Support and strengthen the participation of local communities in sanitation management



LIFE BELOW WATER:

- Protecting marine sites of biodiversity
- Clean Oceans - Red Sea + Canals
- Limiting biodiversity threats due to imports, shipping, and boat use
- Protecting terrestrial sites of biodiversity
- Replenishing and nourishing plant life
- Minimize acidification of oceans water

Program Map:



Concept Statement:

The Arab Republic of Egypt has **agreed** to make these **17 sustainable development goals**, outlined by the United Nations, a reality by the year **2030**.

Our project will address **six** of the goals, in a way that brings a **greater cultural enrichment** of the **historic city center** and the **industrial port services**. We intend to create an **expansive green corridor** that embraces local customs and assist in the production of **local products**. We will strive to **enhance biodiversity** through the **bioremediation** of polluted areas. We will also address **mitigation** of potential **flash flood zones**, additional **tourist recreational activities**, and inclusion of **local flora**.

Sharm El-Sheikh, El Hadaba

Sustainable Tourism + Sustainable Development ©



The Deluge

1,500 acres, 3 miles long wadi



This nature park boosts pedestrian hiking trails and local excursions while revitalizing sensitive habitats and mitigating storm surges.



Global Tourism Port

400 acres

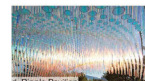
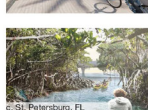


We propose a complete rethinking of the global port services aimed to improve circulation and accessibility throughout the bay while attracting visitors to a vibrant nightlife, community market, and relaxing cafes.



Phyto Forest

200 acres



This unique project is a mixed use area that has a strong underpinning of bioremediation that provides a scenic walk that showcases community art installations, the landscape's geography, and the oceans ecosystem.



Old Market Ridgway

50 acres, 1 mile long

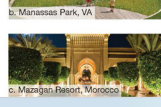


This ridge line walkway will become an elegant backdrop to the old market and allows visitors to enjoy this culturally rich area through a series of creative spaces and overlooks that display Maya bay, Al Sahaba mosque, and the old market in their full glory.



International Corridor

2.5 miles long



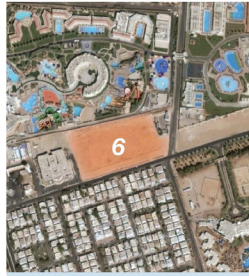
This corridor connects the King Salman University, The International Sports Center, the International Hospital of Sharm, and the Old Market with an ADA compliant health and wellbeing trail that includes sensory, pray, and medical gardens, public amphitheaters, and an improve street scape that focuses on pedestrian circulation down Al Salam Street.



Devon O'Geary + Aaron Ringel LARC 8520 Dr. Nassar March 5, 2021

Sharm El-Sheikh, El Hadaba

Sustainable Tourism + Sustainable Development ©



The Playscape

5.5 acres

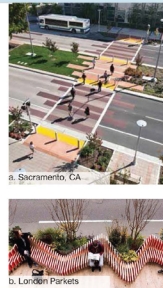


This public playground will have a socially inclusive design thinking that highlights the creative nature of the youth and community through music, art, and expression. The space is nice gesture that to the local community that lives adjacent to the tourist attractions.



Resort Row

2.5 miles

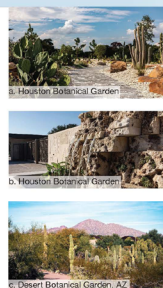


This artery remodel will strengthen the daily and nightly connection between the 4 major tourist attractions along resort row; Ras Umm Sid Beach, Aqua Blue Water Park, Ghibli Raceway, and the Red Sea Sanctuary. It would also provide a boost in local economy by encouraging rickshaw services, local merchants, and street performers, to inhabit the streetscape.



Red Sea Sanctuary

200 acres

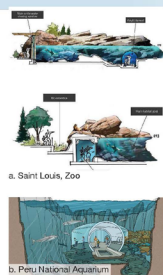


This expansive space provides a life changing outdoor zoo experience that is wrapped by a beautiful botanical garden that includes exotic biospheres with unique micro climates and cerebral experiences. The space will include protected habitat, an animal hospital, and local flora.



Aquatic Exhibition Center

1.75 acres



The Aquatic Exhibition Center brings the marine ecosystem of the Red Sea directly to you despite anyone's physical disadvantage. The ever-changing ecosystem of the ocean is framed by underground view ports to allow for the research and learning of artisan fish and the unique coral reef without having to put on a wet suit.



STRENGTHS

- Reestablish the port threshold and Sharm's global awareness
- Mitigate pollution and stormwater runoff while replenishing underground aquifers
- Provide pedestrian pathways to and from major tourist hubs
- Promote healthy and sustainable development for tourists recreational activities

WEAKNESSES

- Keeping the projects sustainability from concept to completion and beyond
- Weak relationship with the local community
- Activities and attractions catered toward tourists
- Accessibility to all of Sharm El Sheikh

OPPORTUNITIES

- Enhancement of local flora and fauna through research and conservation
- Promote community agriculture for widening of economic stability
- Bridging the gap between aquatic and terrestrial ecosystems
- Achieving sustainability without compromising culturally important traditions

THREATS

- Imposing on aquatically sensitive territory
- Altering the habits of unknown local organizations and populations
- Infringing on customs of local authorities

Devon O'Geary + Aaron Ringel LARC 8520 Dr. Nassar March 5, 2021

LARC 8520 URBAN DESIGN
MLA