

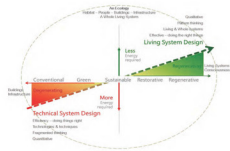


Beyond Sustainability: Regenerative Design

What is Beyond Sustainability: Regenerative Design?

Design that seeks to transform human communities into living systems enablers. They help lay foundations for the ongoing evolution of natural and social systems, enabling them to increase in viability and health as the world changes.

Instead of designing for sustainability with solar panels, green spaces, and the like, regenerative design designs for the entire ecosystem by taking into account the environment around it and providing specific programs for its users including stormwater management, native species and landscape systems by means of a connected web of systems.



Principles & Strategies

Evolution:

Leave room to grow:
Don't take up the entire site, leave room for future expansion and make spaces multi-use
Create innovation spaces:
Create research spaces for further research on biofuel and other renewable resources
Provide education spaces:
Provide programming to education public for all ages

Connected Web:

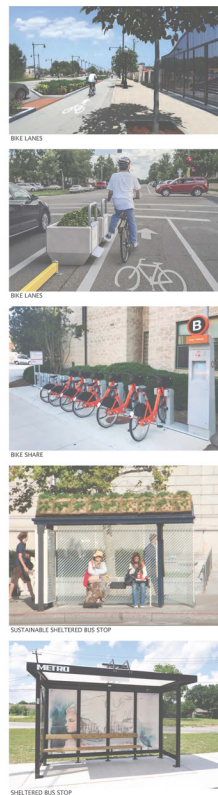
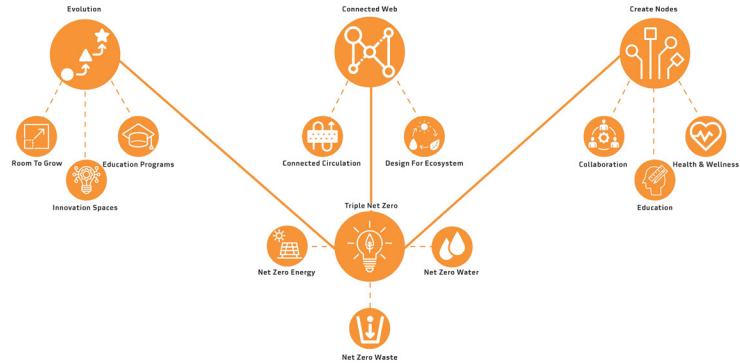
Provide a connected web of circulation:
Create a system of connect trail and bike paths for users to circulate between sites
Design for an ecosystem:
Design keeping the surrounding environment in mind as well as creating programs that work off the weather

Create Nodes:

Create health and wellness nodes:
Create trails for users to walk, an outdoor gym and greenroofs
Create education nodes:
Create areas of learning by community outreach programs, garden space and study areas through the site
Create collaboration nodes:
Create areas for students and employees to interact and collaborate through open greenroofs and shared covering and food services

Triple Net Zero:

Net zero energy:
Provide solar panels & geothermal energy throughout site
Net zero water:
Collect and manage storm water and grey water
Net zero waste:
Collect cooking oil and compost waste on site to be used for biofuel



Legend

1. Office
2. Transportation
3. Thermal Greenhouse Lab
4. Algae Pond
5. Aquaculture Solar Farm
6. Beaming Tank
7. Onboard Ventilation
8. Light Manufacturing

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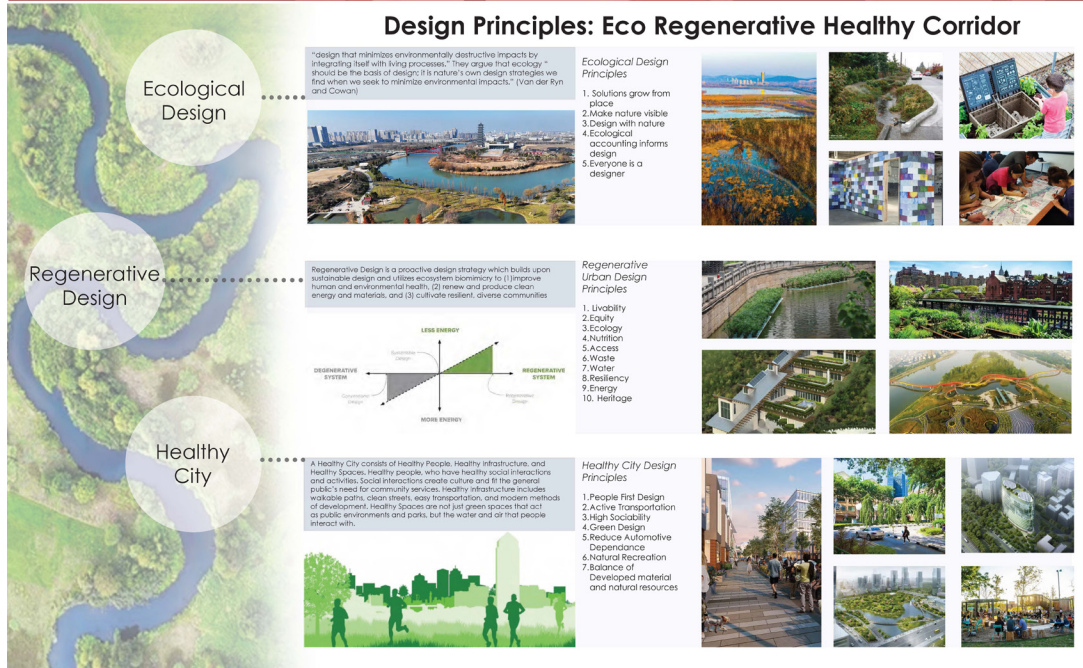
Figure 1 consists of 12 photographs arranged in a 2x6 grid, showcasing the 'New House' at the University of Michigan. The top row (1-6) features aerial and elevated views of the building, highlighting its integration with the surrounding landscape and its unique architectural forms. The bottom row (7-12) shows ground-level views of the building's entrance, a courtyard with a fountain, and various garden paths and ponds, emphasizing the building's connection to nature and its role as a community space.

LEGEND

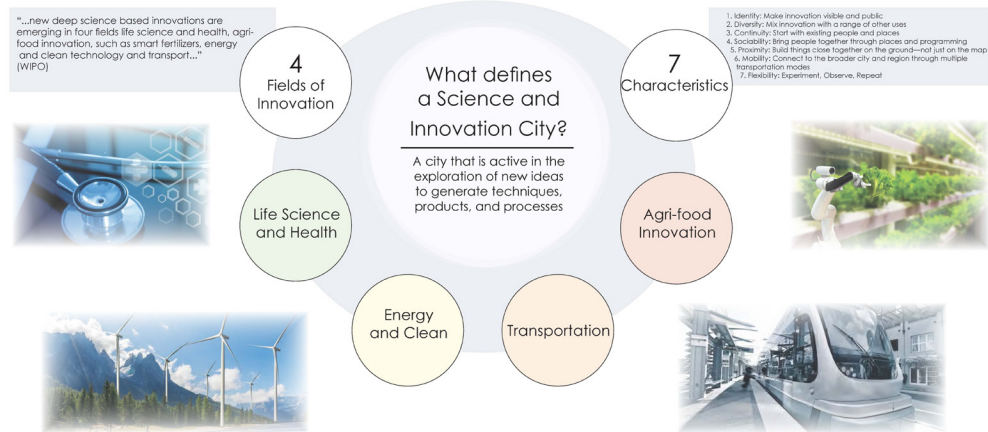
- 1. Recreational Golfcourse with Teal
- 2. Residential & Commercial Building
- 3. Educational Building &
- 4. Commercial Building
- 5. Industrial & Employee Living
- 6. Sports & Recreation

The map shows a large green area (1) at the top, a blue area (2) on the right, a yellow area (3) in the center, a red area (4) on the left, and a purple area (5) at the bottom. A road runs along the bottom edge. A north arrow is located in the bottom left corner. Below the map is a row of six orange circular icons: a square with an arrow, a lightbulb, a building, a person, a sun, and a person with a magnifying glass.

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Design Concept: Science and Innovation



Case Study: Chengdu Future Science and Technology City

The brief for this international design competition asks for a new masterplan for the innovation industry in Chengdu in Western China. While the innovation industry is high on China's economic agenda, masterplans recently developed for the industry are hardly specific. They are based on a generic urban planning model—often defined by traditional infrastructure, a regular grid, a green belt, and independent plots—also used for masterplans for any other industry. Can urbanization in China, driven by this generic planning model, remain sustainable, given that our ways of living, commuting, and relating to nature are vastly changing? In addition to supporting the innovation industry itself, should masterplans developed for the industry also be novel enough to challenge the generic urban planning model, offering new forms of living, working, and social spaces that meet our ever-changing needs?



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Conceptual Districts for Yangzhou Innovative Zone



District A: Residential



The residential zone surrounds the historic city center and contains existing zoning for residential use. Though there are not many changes to be made to this area, the existing structures could be retrofitted to form a healthier, regenerative urban fabric and quality of life. The residential district also corresponds to the mixed use commercial district, putting residents within proximity to shopping, open spaces, and amenities.



Case Study: Dietenbach Freiburg

Set in Germany's greenest city Freiburg, Dietenbach is a new urban neighborhood set to expand the Yunnan city in the forest. Corridors play a big part in this design, both for connectivity to the existing city and ecological corridors of parkscape. Freiburg also has heavy emphasis on public transit and walkability over car usage.



District B: Mixed Use



While mixed-use is a strategy which can be applied across the city, this designated district allows for walkable amenities and shopping for public clusters and the university domes of the education district. Extensive waterfront also allows for waterfront parks and restorative riparian landscapes. The initial practices of mixed use also work well with the existing infrastructure.



Case Study: Liangjiang Collaborative Innovation Zone

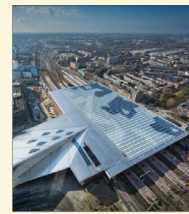
"The masterplan is a fully transit-orientated development and provides railway, metro, BRT, electric bus and water taxi connections throughout the site. Sustainability is embedded in the project, which is planned to be self-sufficient in energy needs - using solar, biomass and hydroelectric power sources, resulting in a saving of over 450,000 tons of CO₂ per annum." (Chapman Taylor)



District C: Transportation



The transportation district is focused both on the importance of the public transportation infrastructure of Yangzhou as well as automotive research. The district houses a new public station which overlaps many modes of transport, including buses, water taxis, and bikes. Research focuses towards EV safety, emissions, and test tracks.



Case Study: Rotterdam Centraal

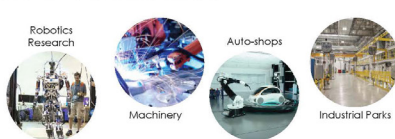
Rotterdam Centraal Station is a multi-modal transit hub that caters to the High-Speed Train (HST), RandstadRail, light rail system, tram, taxi, subway and bus services. It is a transport mode with high passenger flow expected to have approximately 323,000 passengers per day by 2025. The Transit Hub is in the middle of Europe with being the first stop in the Netherlands when traveling from the south side.



District D: Machinery and Technology Industry



This district corresponds closely to both the Transportation District, the A.I. Development District, and the Biomedical District, as well as other research-focused districts. It includes robotics research and development, industrial parks, and auto-shops.



Case Study: Porsche Leipzig

Porsche Test Track is a racing circuit located north west of the German city Leipzig, Saxony (Germany). The circuit serves as a test track for PORSCHE vehicles.



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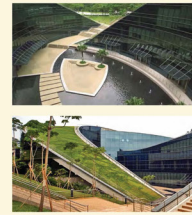
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District E: Innovation Education Campus



The Innovative Education Campus brings students and future leaders into the Science and Technology Zone, with transit to major innovative industries bringing students into real work experiences. A new university focused on innovative fields and leadership would create a unique district. It is also adjacent to the river and across from the mixed-use commercial area.



Case Study: Nanyang Technological University

"Curving green roofs distinguish the building from among the other structures on campus, but the line between landscape and building is blurred. The roofs serve as informal gathering spaces, challenging linear ideas and stirring perception. The roofs create open space, insulate the building, cool the surrounding air, and harvest rainwater for landscaping irrigation. Planted grasses mix with native greenery to colonize the building and bond it to the setting." (Inhabitat)



District F: Financial Innovation and Entrepreneurship



The district combines the rising financial and technical market in Yangzhou with the existing municipal buildings that support local communities and government. Additional efforts for green spaces, public access, and innovative design create a node of higher services available for the general public in Yangzhou.



Case Study: Hongqiao Business District

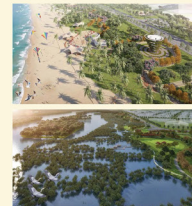
The Hongqiao Business District is a building heavy district that utilizes underground space for parking, and commercial uses. The variety of businesses mixed with office space and commercial creates a large social sector within a professional business environment.



District G: Ecological Restoration and Research



Ecological restoration deals with the process of aiding in the recovery of an ecosystem that has been degraded, damaged, or destroyed. Ecological research investigates scientific understanding of ecosystems, habitat restoration practices, and communities or species of interest.



Case Study: Yazhou Bay

The design of this waterfront eco-park covers 135 hectares and includes three parts: a Coastal Belt Park, an Ecological Wetland Park, and a Resident Riverfront Park. The design calls for a coastal windbreak forest, wetland water management and smart city water management systems. An important requirement is to prevent natural disasters such as seawater backflow, flooding, typhoons and sand erosion. While people-oriented, the design is also sensitive to the biodiversity of the area.



District H: Biomedical



This section focuses on the Research, Development, and Services of Biotechnology and Science. This district would support the community with medical professionals, pharmaceutical materials, and provide a medical partnership with the adjacent college. It would include programs such as hospitals, medical schools, pharmaceuticals, and material distribution.



Case Study: Zhengzhou Linkong Biopharmaceutical Park

The Zhengzhou Linkong Biopharmaceutical Park is a mixed use medical district that incorporates high-quality medical facilities, hospitals, manufacturing, research, and teaching. It includes a public park that divides medical facilities and a residential community that includes assisted living and dormitory housing for medical professionals.



District I: AI Development



The A.I. Development District not only has the potential for cutting edge research, but also allows for a brand new branch of technology-focused tourism. Local restaurants, business, and other public spaces could showcase A.I., allowing researchers to test and implement.



Case Study: Shanghai World Laureates Association Artificial Intelligence Lab

Construction is underway on a new artificial intelligence research laboratory designed by PJP Architecture. Located in Shanghai, China, the building's overall form is inspired by computer motifs, ethernet and CPU. It is divided into four quarters and includes amenities like the Super Lab, cafe, co-working space, general labs, command centers, gardens, and the central core area. The four quarters connect along the north-south and east-west direction through the atria, the main core area. The Shanghai World Laureates Association Artificial Intelligence Lab is part of a Lingang New Area district in the city that will foster research and innovation, which also happens to be where the Ring project, the anchor for the new business district, is being constructed.



District J: Clean Energy Production



This district takes advantage of open spaces on either side of the river as locations to implement clean energy technologies. Different systems such as solar panels, wind farms, hydropower dams, and geothermal wells could be implemented and researched. These technologies could also be combined with parks or ecological spaces.



Case Study: Sun Dial Solar Office

The building is located in Dazhou, Shandong Province, in North-west China, and covers an area of 75,000 square meters. The design of the new building is based on the circular and "nest-like" urgency of seeking renewable energy sources to replace fossil fuels. Aside from the obvious sustainable nature of the solar panel-clad exterior, other green features include advanced roof and wall insulation practices resulting in energy savings of 30% more than the national standard. In addition, the external structure of the building used a mere 1% of the steel used to construct the Beijing Birds Nest.



District K: Agri-Food Agriculture



The Agri-Food District bridges the new research and technology of the Science and Innovation Zone and the farming villages in Yangzhou's hinterlands. It includes research into healthy, regenerative, and ecologically friendly farming techniques, as well as education and outreach for the community.



Case Study: Sustenir

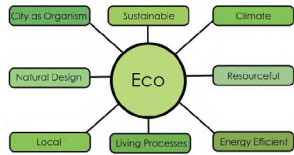
"Besides feeding Singapore, Sustenir is committed to growing its crops with sustainability in mind. Known as Nutrient Film Technique, Sustenir's farming system recirculates water for reuse, utilizing 95% less water than a traditional farm. This indoor system also doesn't require arable land, which can be employed for other earth-friendly measures like tree planting" (Ed-gro)





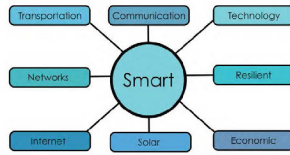
ECO

Human city modeled on self-sustaining and resilient principles with functioning natural environment and ecosystems. Looks at the city as a living, growing organism that doesn't consume more resources than it produces or more waste than it can assimilate.



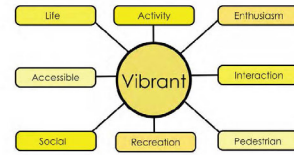
SMART

Information and communications technology used to develop, deploy, and promote sustainable strategies. Transportation and accessibility are positively affected as well as improvement of social services. Employs the use of technology to solve city problems.



VIBRANT

A vibrant city is enjoyable for people with plenty of areas to meet outside providing a sense of community. This includes diversity of places for different uses of interacting, exploring, relaxing, recreating and servicing mix of activities for different times of the day. An activated pedestrian scale is key.



Concept Narrative

Concept Narrative

An Eco Smart Vibrant City is one of which makes life more efficient and effective through designing by keeping in mind living organisms, technology, and the socialization/ recreation of humans. In order to address the natural pre-existing habitat within the technological neighborhood, we plan to respond to local conditions that are cultural and environmental. This can be done through accounting for the impact of all activity on the immediate and the distant surrounding environment and by designing with nature instead of against it. We must address the population's social, ecological, and technological needs and make them viable to all. To create a smart environment that uses effective and effective technology, we will use a combination of different technologies. These technologies are based on energy management, lighting, heating, cooling systems, communication networks, waste management, and mobility systems. Last but not least, in order to ensure the happiness of the people are at heart, we will create vibrance by making an easily accessible place with plenty of opportunities for socialization and recreation of a pedestrian scale.

Guiding Principles

-
- Figure 1: Dimensions of sustainability**
- The diagram illustrates the five dimensions of sustainability and the specific indicators that define each:
- Livable:**
 - 1) Fresh food, health services, education, and healthy environment
 - 2) Pleasant public areas with outdoor amenities and places for walking, cycling, and recreation
 - 3) Safe drinking water and wastewater services
 - 4) Affordable, accessible, and secure housing
 - Sustainable:**
 - 1) Affordable infrastructure and services
 - 2) Diverse transportation options (transit, biking, walking)
 - 3) Secure and safe environment
 - 4) Free and public safety services
 - Efficient:**
 - 1) Community
 - 2) Real-time data for first responders
 - 3) Reduced
 - 4) Adoptable
 - Inclusive:**
 - 1) Productive
 - 2) Investing in economy
 - 3) Job growth
 - 4) Inclusive equitable
 - Transparent:**
 - 1) Affordable
 - 2) Job opportunities for all
 - 3) Dealing diversity
 - 4) In transparent government
- These dimensions are interconnected, with arrows indicating a cyclical relationship between them.



Human Factors Neighborhood



Showroom Tower

A midrise glass showroom for community engagement and better representation of the work done at CU-ICAR.



Interactive Garden

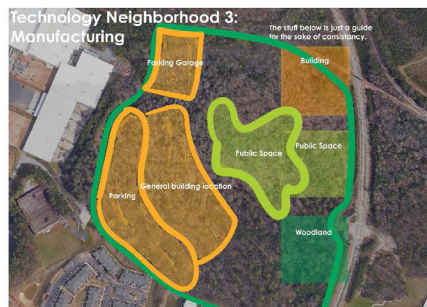
An interactive and education garden that services visiting groups. Garden areas determined and tailored for specific groups of people and utilizes smart boards for increased interaction.



SWT Restrooms

Public restrooms in a plaza area to service the visitors from the Swamp Rabbit Trail, using amenities and further outdoor areas to draw guests in to understand CU-ICAR a bit better and utilize public space.

Manufacturing Neighborhood



Car House

The McPee House uses recycled car parts from 104 junk cars. The decks are made from redwoods and the awnings are made from glass. The overall construction was very low cost considering how eco friendly the design is.



Play Ground

The Playground at the Andino Hou Community Park is a 1905 eco friendly design made entirely from plastic and local found non toxic materials. It includes many activities for kids to explore like navigating the pacific ocean using stars as guides, mountain to ocean land themed structure, and trains. Not only is the playground a fun place for kids inspired non other than a child, but it also is a great place for learning to take place.



Wetland Garden

The Houston Zoo Cypress Circle and Wetland has a commitment to sustainability and was built around an existing stagnant pond. The pond revitalizes the wetland into a thriving, biodiverse constructed wetland. The wetland features a striking 35' long photomural of a whooping crane in flight, setting the mood for diners in the new Cypress Circle Café.

Performance Neighborhood



TOD

TOD: With the proposal of the city of Greenville building an autonomous light rail system. It will have a stop directly in front of the CU-ICAR campus in Tech Neighborhood 4, right off Curran Road. This station will act as a hub on campus, offering multi-use building programming thus enriching life within the community.



Outdoor Showcase

The front of the tech neighborhood will include a node that functions as both a fully functional plaza and a space where CU-ICAR can showcase their new developments, while also offering a large public space which users could use for car meets or other large gatherings.



Performance Track

The main feature of this tech neighborhood is a performance track that will be visible from almost any part within the neighborhood. It is to be used for testing cars that CU-ICAR is developing, but can also be programmed to host small race events or driving classes similar to BMW's performance driving school track.

Electronic Neighborhood



Pedestrian bridge

A pedestrian bridge, similar to Liberty bridge at Falls park, would be a necessary addition for connecting foot traffic from Neighborhood 1 to Neighborhood 5



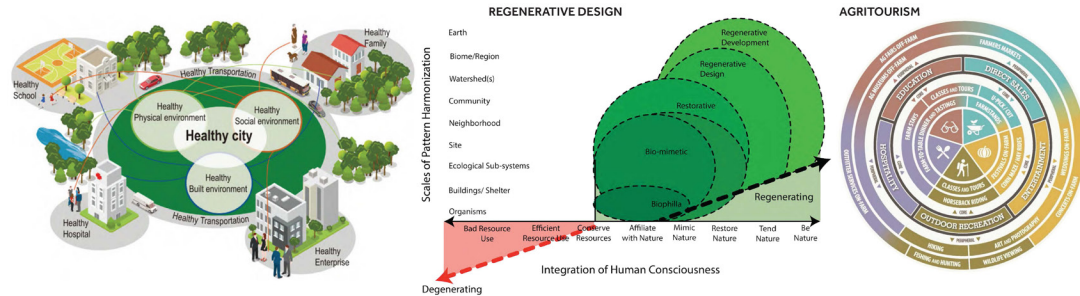
Riverwalk

Parallel to the creek on site could be a boardwalk that rises above the wetland. These walkways could connect to other parts of trails and act as an alternate route of for either transportation, or simply as recreation.

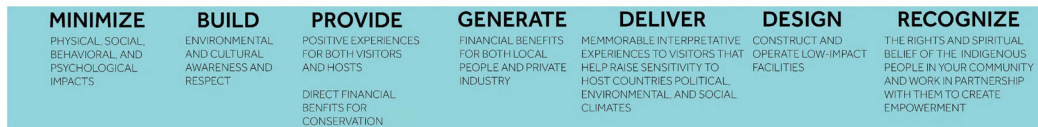


Street Fair

In the western recreational fields, there could be multi-purpose areas for special events. These events could host market places, food trucks, firework shows, concerts, etc.



PRINCIPLES OF ECOTOURISM



REGENERATIVE OBJECTIVES



PROGRAM MAP



CONCEPT STATEMENT

The mission is to create an innovative landscape design that promotes ecotourism while emphasizing sustainability, upholding historical culture, and improving the existing ecology within the new city of Yangzhou. The plan seeks to mitigate and remedy current ailments plaguing the town, like poor water quality, air pollution, lack of a unified edge, and green spaces. An entertainment zone will be the center of day-time activities to night life fun and fine dining. A scientific research complex zone will house the world's leading experts in water treatment and crop studies. The agritourism zone will have a luxury resort with eco-housing, clean eating, outdoor activities like ziplining and u-pick fields. Lastly, and animal sanctuary zone across the canal will be home to native and exotic animals with and educational museum. State of the art technology, including a new mode of transportation, will assist in making the experience through the zones a tour of a greener and healthier Yangzhou. A light-rail system and a clean ferry will traverse the zones and water bodies.

GRAND CANAL 揚州 YANGZHOU

ECOTOURISM CONCEPTS

WDS
world design studio

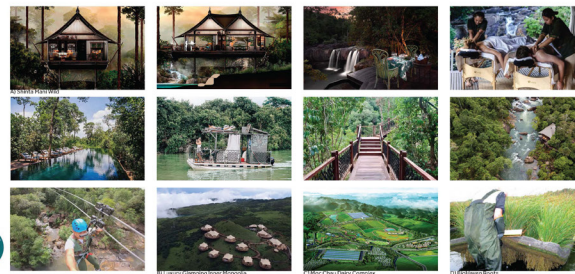


AGRITOURISM RESORT

750 +/- HECTARES



This concept aims to recreate a resort that celebrates the native subtropical forests of eastern China and can sustain the most severe weather conditions: after monsoons. The list of programming will ensure that every user will have somewhere to go and something to do while resting assured that their impact on the environment is at an all-time low. Even the restaurants will use products grown from the on-site crops. The dwellings will have water harvesting and energy-harnessing elements that will contribute to the green, low-impact, luxury vacationing mission.



SCIENTIFIC RESEARCH COMPLEX

750 +/- HECTARES



This space is a sprawling research and development center for sciences of experimentation and investigation. By utilizing a sectionalized organization system, the flow and experience of the entire space can be categorized as harmonious. By implementing state of the art facilities, innovative field designs, and regenerative wetland systems, this site aims to educate, create, and filtrate.



MIGRATORY BIRD SANCTUARY

600 +/- HECTARES

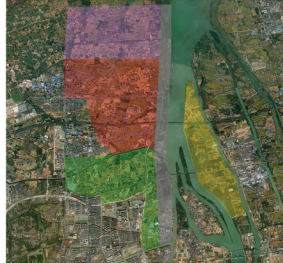


My project aims to create a multi-functional site that serves as a migratory bird sanctuary, a recreation area, and an educational space for visitors and local students. The site will be designed with trails and greenways that run throughout the site and along the bank of the peninsula, creating an immersive experience for visitors. The site will be divided into different zones to accommodate different bird species, which will help attract and protect various types of birds during their migration.



REGENERATIVE WATERSIDE GREENWAY

600 +/- HECTARES

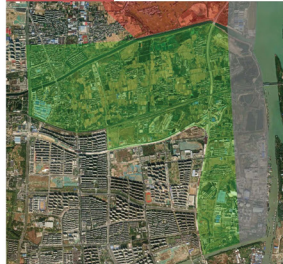


My goal for this section of our project is to provide a comprehensive landscape design that will transform how the city of Yangzhou interacts with the grand canal. My vision is to create a multi-use waterfront leisure experience that will connect the other parts of our project by the use of a greenway. I want to have a strong focus on sustainability, nodes, and interactive water front activities. This green way will accomplish these goals by adding water front parks for activities, marinas for boat parking and water transportation, ecofriendly plants for phytoremediation, and energy efficient elements like solar powered holographic lighting.

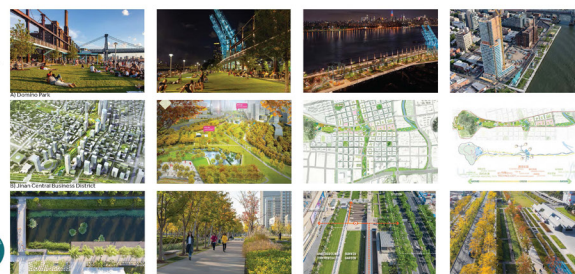


ENTERTAINMENT ZONE

600 +/- HECTARES



The design concept for the entertainment zone is to transform the existing area into an immersive space that includes many activities such as dancing, martial arts, calligraphy, food vendors, chess, shopping vendors, interactive art, and much more, while maintaining ecological awareness and restoration. The idea is to implement green spaces and greenways throughout the area to create more connectivity between the people and the environment and to allow for spaces for people to gather and participate in many of the traditional activities stated. The long term goal is to implement a regenerative landscape that will spread and adapt throughout the area to increase water quality, air quality and overall quality of life while beautifying the area

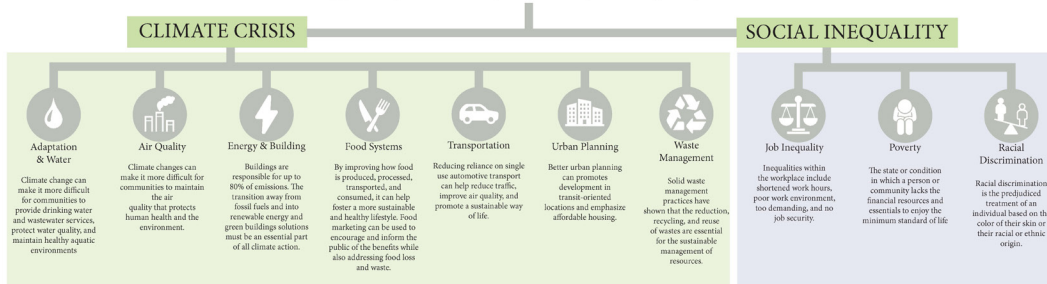


S WATERSIDE ACCESS REESTABLISH WATERSHED MITIGATE POLLUTION AND STORMWATER PROVIDE PEDESTRIAN PATHWAYS PROMOTING HEALTHY AND REGENERATIVE SPACES FOR LOCALS AND TOURISTS NORTHERN SECTION HAS LARGE AMOUNT OF CURRENT AGRICULTURE FIELDS CONTINUATION OF LOCAL CULTURE	W PREVIOUS LAND USES FOUR LOCAL WATER MANAGEMENT WATER TREATMENT PLANTS CENTRAL CITY LIMITED ENTERTAINMENT WATERSHED	O ECONOMICAL BENEFITS FROM TOURISM BETTER ENVIRONMENT FOR THE FUTURE FOOD AND ACTIVITIES INNOVATIVE IRRIGATION SYSTEMS RECREATION, GOLF, AND WATER RECREATION EDUCATIONAL SPACE REGENERATIVE AND RESTORATION LAND COMMUNITY INTERACTION WITH WATERWAY	T UPSTREAM POLLUTION POLLUTED LAND WATER QUALITY FLOODING DRUGAL TRAFFIC BOAT TRAFFIC
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The Green New Deal

The Green New Deal is an opportunity to address the climate and inequality crises and ensure that everyone, everywhere can thrive for generations to come. We need to protect our communities and our ecosystems from climate change, secure a just transition away from fossil fuels, and build equitable, sustainable economies.



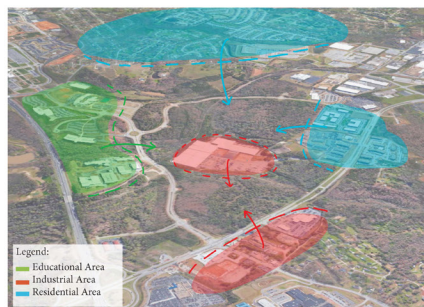
COLOR PSYCHOLOGY

Color psychology is the study of how certain colors impact human behavior. Different colors have different meanings, connotations, and psychological effects that vary across different cultures.

Each proposed neighborhood is going to fit under one of these 5 colors. The neighborhood's characteristics and programming will determine which color represents it the best. The color given will then be used physically in the design process.



SOCIAL & ECONOMIC CONNECTION



CU-ICAR will be able to connect to the surrounding elements such as residences, schools, and commercial/industrial companies. CU-ICAR should use these elements as strengths in the design process.

PROPOSED CIRCULATION



Campus transportation will be mostly made up of multi-use trails for walking, cycling, or scooters. By pushing vehicles to the outside of the campus, it offers a more eco-friendly and eco-focused experience.

THE 5 NEIGHBORHOODS



The CU-ICAR campus is composed of five total 'neighborhoods'. Neighborhood 1 is the only piece of land currently completed. Neighborhoods 2 - 5 are still being developed.

PROPOSED BUS ROUTE



The proposed bus route circles from Millennium Boulevard, to Innovation Drive, and Laurens Road. There will be no routes that cut into the neighborhoods. Bus stops will be provided at the entrance of each neighborhood.

1

The Research Hub

This existing Hub highlights student accomplishments. This hub highlights student-student relations and student-business relations.



Success
Sociability
Confidence



Adaptation
& Water



Food Systems



Transportation



PROGRAMMING:

Creating a broad variation of spaces for students and staff to interact with.

GREEN SPACE:

- Outdoor Plaza near Campbell
- Multi-use trails connecting to the Swamp Rabbit Trail
- Make the retention pond more interactive via seating, study areas, and trails

2

The Collaboration Hub

This hub focuses on building relationships between students and the community through the celebration of culture, showcasing of diversity, and by promoting outdoor engagement.



Fun
Friendly
Optimistic



Air Quality



Food Systems



Racial
Discrimination



PROGRAMMING:

Creating communal spaces for students to engage and connect with the local community.

BUILDINGS:

- Collaborative Community Center
- Car Company Rental Offices
- Public Art Gallery
- Rec. Center

GREEN SPACE:

- Outdoor Plaza
- Multi-use Outdoor Space
- Outdoor Dining

3

The Green Hub

This hub showcases a series of green spaces highlighting sustainable practices, recreational activities to encourage people to interact with the surrounding environment, and promoting good mental health.



Care
Growth
Nature



Waste
Management



Energy &
Building



Poverty



PROGRAMMING:

Creating green spaces for students to learn more about and engage with the environment.

BUILDINGS:

- East End Market
- Material Reuse Factory
- Energy-Design Center

GREEN SPACE:

- Natural Outdoor Plaza
- Community Edible Garden
- Botanical Garden
- Outdoor Multi-use Space
- Hammock-Share

4

The Co-Tech Hub

The Co-Tech hub emphasizes students and business relations by highlighting and encouraging networking, career certainty, and education. This space will feature a more formal collaborative space while also reducing emissions through alternative energy practices.



Powerful
Daring
Determined



Urban
Planning



Transportation



Job Inequality



PROGRAMMING:

Creating a formal space for students to engage with and explore businesses.

BUILDINGS:

- Student Services Building
- Business & Analytics Complex
- Computer Lab & Classrooms
- Multi-modal Transit Facility

GREEN SPACE:

- Outdoor Smart-Tech Dining
- Outdoor Plaza
- Outdoor Study Space

5

The Innovation Hub

With a focus on innovative sustainable water and energy practices, this hub works to create a healthy work-play environment through creative work spaces along with exercise spaces.



Creative
Imaginative
Luxurious



Adaptation
& Water



Waste
Management



Poverty



PROGRAMMING:

Creating a creative space for students to collaborate, engage, and brainstorm.

BUILDINGS:

- The Learning Loft
- Creativity & Innovation Center (CIC)
- Innovative Manufacturing & Design

GREEN SPACE:

- Outdoor Plaza
- Car & Public Art Lawn
- Pavilion