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DEFINING LINES

Dorothy Jacobs

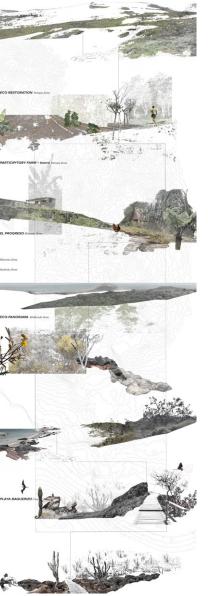
The boundary between the National Park and the inhabited areas of San Cristóbal has created a divide which unfairly prioritizes certain areas of the island, leaving the inhabited areas neglected. The island's preservation and local economy is dependent on the revenue brought in by tourism. However, the nature of the tourism industry in the archipelago reinforces the divide within the island. The reliance on water-based tourism has caused the land within the Highlands to be disregarded, leading to abandonment and widespread invasive coverage. The creation and construction of an expansive trail network in the Highlands will begin to mend this division and draw more tourists into the Highlands. The three distinct trails connect visitors across the Highland's rich ecologic, geologic, and cultural features, expanding visitors' expectations and understanding of the island. These trails will function as a way to puncture the psychological barrier that exists around the park and serve as a protective line through the trail's maintenance and management. In addition, the process of constructing the trail will encourage more collaboration between the different governing institutions and provide more job opportunities for the island's growing population.

SITE ANALYSIS

Water-Based Tourism

On these excursions, tour operators show visitors a curated vision of the islands as the epitome of Pristine Nature. In order to uphold this vision of untouched islands, the boat tours are managed in a way that visitors are not supposed to see another Of Tourist Sites are in the Coastal/Arid Zones tour boat. This almost mythical view of the islands promotes a vision of a place without inhabitants that leads to a staggering inequality in the overall revenue brought in by tourism. American + Mainland Cruise Ships, Airlines & Travel Agencies - - - maintain majority of revenue Of the Revenue Of Tourist Expenses are stays on the spent on the Island

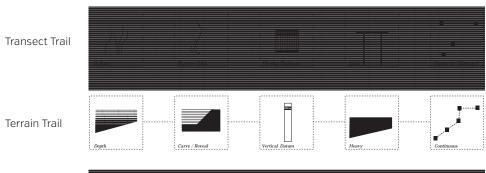
Highland Diversity



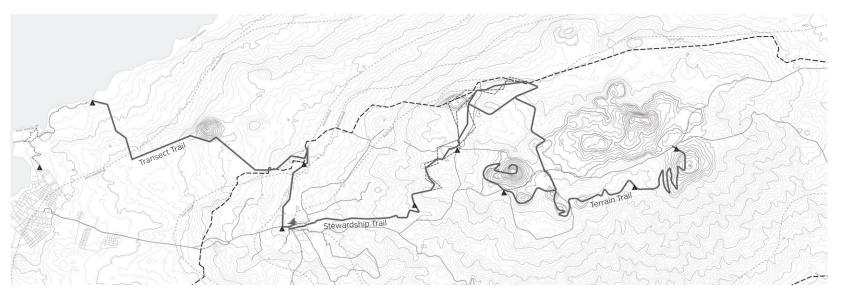
TRAIL PROPOSAL | HIGHLAND ACTIVATION

Trail Strategies & Operations

In order to highlight the unique ecological, geological, and cultural features in the Highlands, the proposed trail network is comprised of three distinct trails. Each trail is accessible.



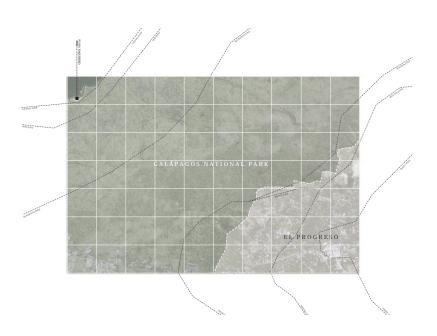
Stewardship Trail



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TRANSECT TRAIL

Ecologic Transect COASTAL ARID TRANSITIONAL BROWN SCALESIA MICONIA PAMPA 60 50 50 60



Divided Landscape | Connected Ecosystems

While the island maintains a diversity of connected ecosystems and ecological conditions, the park's border rigidly defines and divides the systems as protected and unprotected. This not only prioritizes certain ecological zones, but it leaves others vulnerable. The Transect Trail connects users through all seven of the island's ecological zones, highlighting the uniqueness of each zone through a series of viewing platforms.

DELICACY AND DISPERSAL

Viewing Platforms

Across the trail, visitors will approach seven distinct platforms that correspond to each of the seven ecological zones. Each platform is meant to make visitors pause and appreciate the unique landscape.



El Progreso Lookout

Delicacy Studies



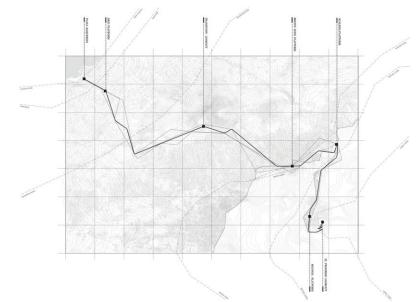








calesia Platform



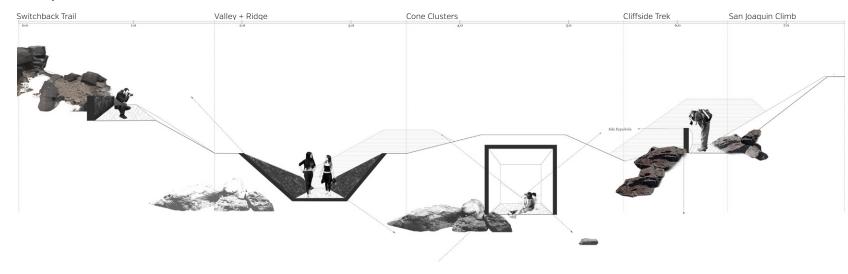


Dispersal

Because the Transect Trail passes through such delicate ecosystems within the National Park, the trail is meant to shift throughout time. As one trail begins to become degraded, park managers can stake out a new trail or decide to make certain routes entirely inaccessible. This would mean that certain viewing platforms would be temporarily unreachable.

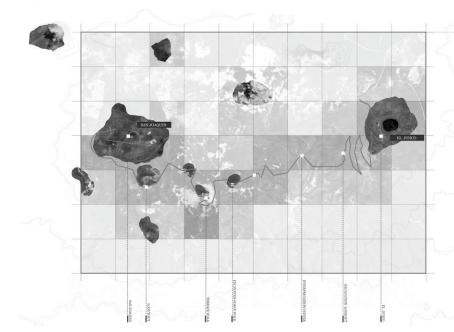
TERRAIN TRAIL | DEFINING

Trail Experiences



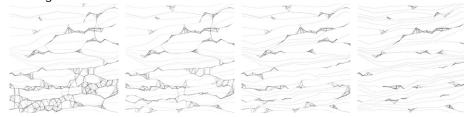
Experiential Terrain

The Terrain Trail connects visitors to the island's largest volcanic cones, El Junco and San Joaquin, while reclaiming portions of the island that have been overrun with invasive species. Along the trail, visitors will go through various topographic conditions unique to this part of the island. The trail carves into the land in order to reveal the island's rich volcanic layers.

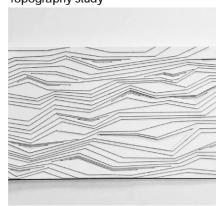


CARVE AND REVEAL

Drawing Studies

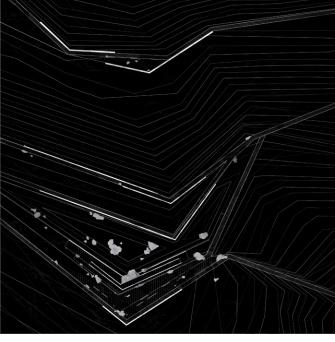


Topography Study





Design Application

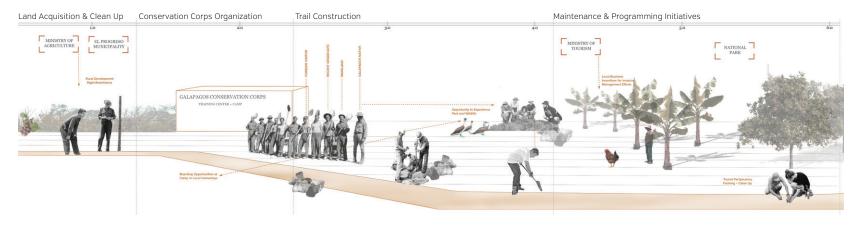


Volcanic Rock Reveal



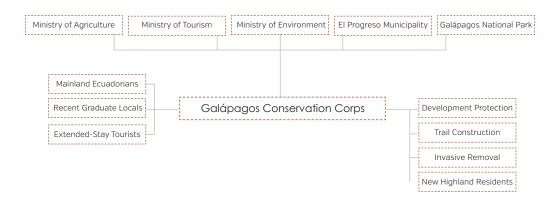
STEWARDSHIP TRAIL | DEFINING PROTECTION

Galápagos Conservation Corps

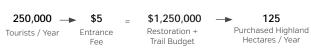


Galápagos Conservation Corps

The formation of this new organization would connect the existing governing institutions behind the shared purpose of protection. The Conservation Corps would provide more job opportunities to young workers on the island and on the mainland, and give them the opportunity to experience the National Park in a different way.



Purchasing Feasibility



nland ear

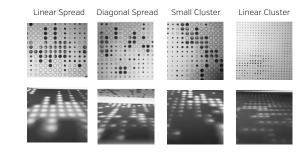




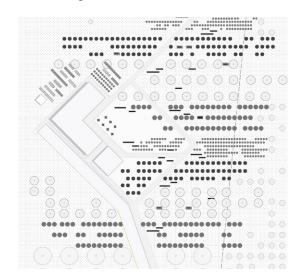
STRUCTURING BORDERS

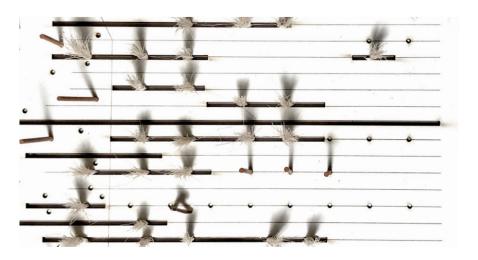
Canopy Shadow Studies

The structure of the canopy along the trail will serve as a marker for the trail. This maintained border will serve to protect the park from parts of the Highlands that are still overrun with invasive species.



GCC Training & Education Center

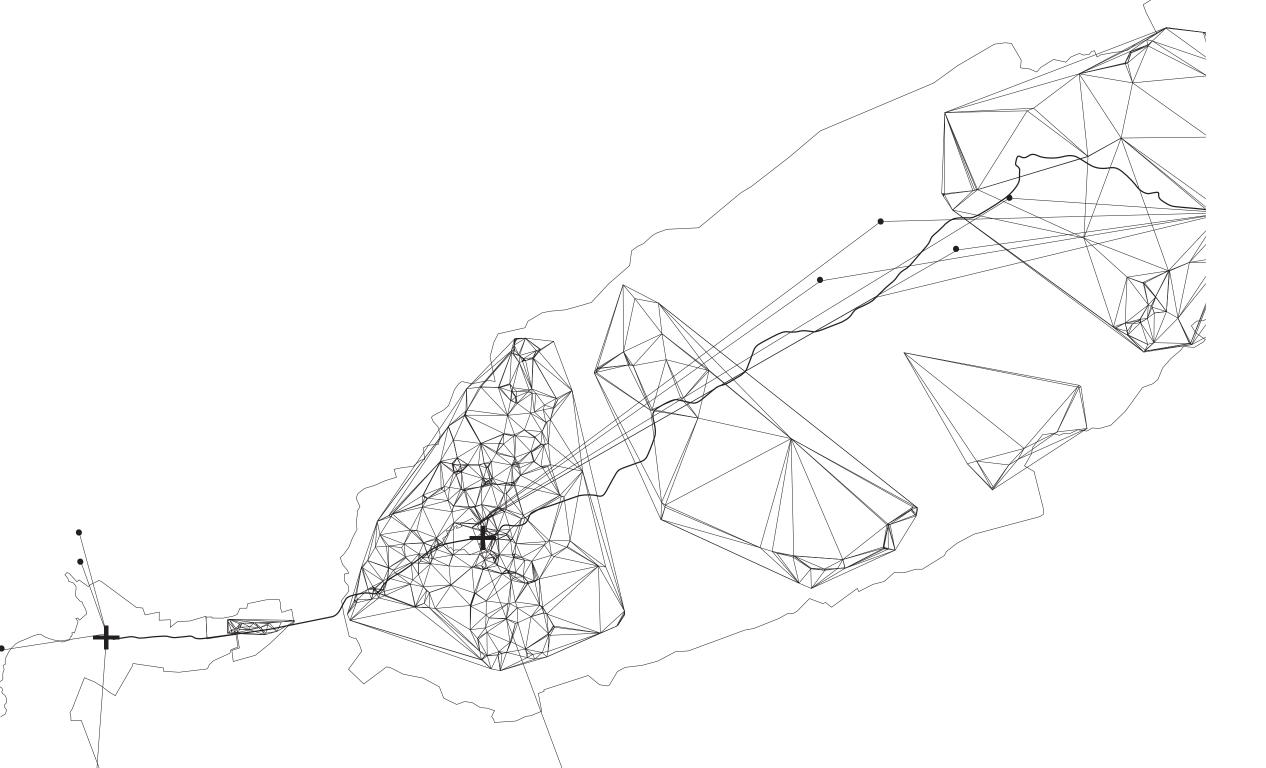




Local Business Opportunities



 $_{3}$



ELEVATING TOURISM IN THE HIGHLANDS

Zhoufei Zhu

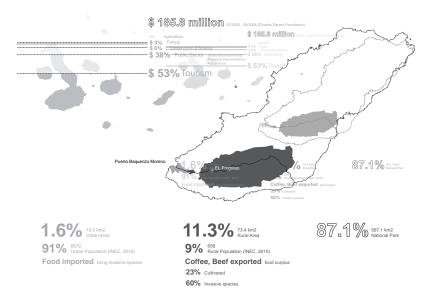
The small highland town of El Progreso was the first place on San Cristóbal Island to be settled, as access to fresh water in the highlands made farming possible. Today, approximately ninety-five percent of San Cristóbal's residents live in the waterfront town of Baquerizo Moreno, and most of them rely on tourism for their livelihood. As residents abandon farming and the highlands, invasive species have more opportunity to take root – only twenty-three percent of the former farmland is cultivated, but sixty percent of it is overrun by introduced and invasive species, which threaten the unique ecosystem. The National Park employs eradication strategies for invasive species within the conservation area, and has cooperated with farmers near the park boundary. Cultivating the land for farming would help with invasive species control. However, for residents, the highlands and farms are less profitable than the waterfront, and for tourists, the highlands are a pass-by spot along the main road. Although the San Cristóbal government has expressed a strong concern about developing the rural area, no official plans have been produced [as of October 2017].

This project aims to highlight the value of the highlands using agricultural-tourism to draw people's attention to the farmland and hopefully to help with the land management of it. In distinction to the current small-scale and spontaneous projects like wall painting or farmers' restaurants, I believe that the government should develop agriculture-tourism as a systemic strategy.

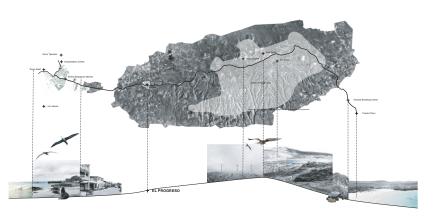
Site Analysis



Potential & Opportunity



- + The town of El Progreso is within the rural highlands and not subject to the same rules as the National Park
- + "Buffer" zone, the Scalesia Forest can only be found in the Galápagos + Featured farms with water conservation, coffee, fruit production
- + Sugarcane Mill relic indicates the history of the highlands







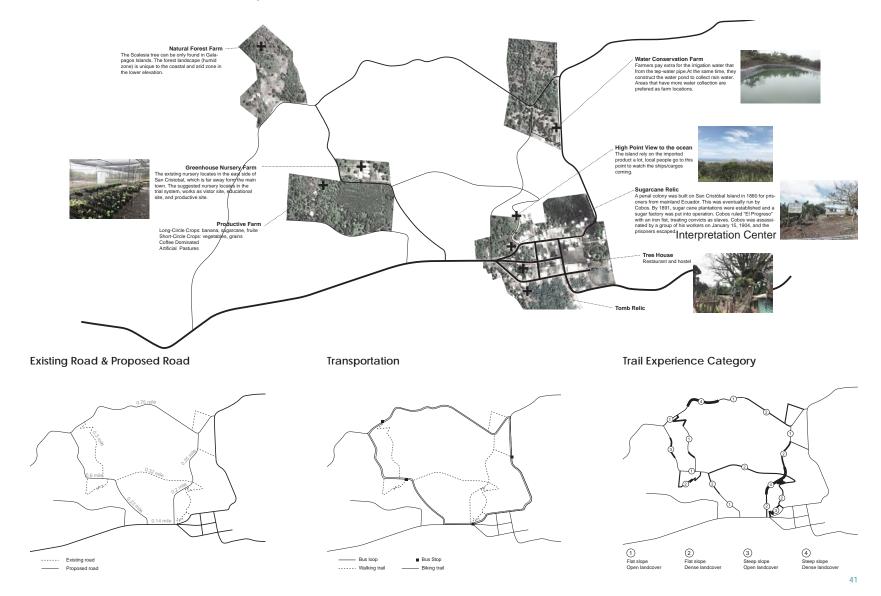
Trail System



Trail Network

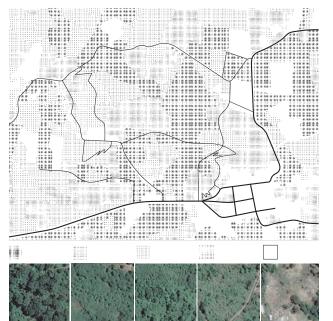
Agriculture Tourism Concept Consist of 3 Aspects

- + Sugarcane Mill Relic as an Agriculture Tourism Interpretation Center, capitalizing on the farming and human history from 1879 1904 + The trail network brings people to the featured destinations
- + The featured destinations (featured farms open to the tourists)

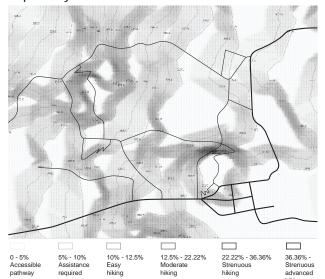


Trail Network

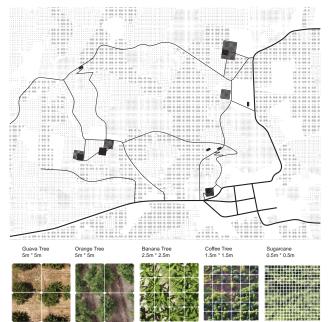
Existing Land Cover Category



Slope Analysis



Clearance & New Planting



Retaining Wall & Way Finding



Interpretation Center



Trail Experience



View Point to the Ocean



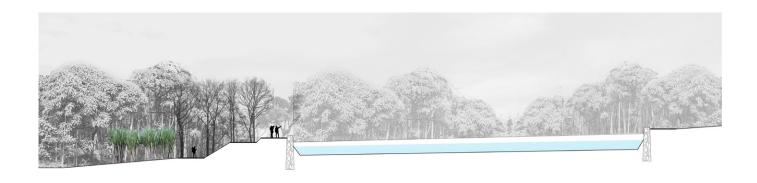
View Point to the Ocean



Walking trail

Walking Trail

Trail Experience



Water Conservation



Harvesting Tour



Water conservation

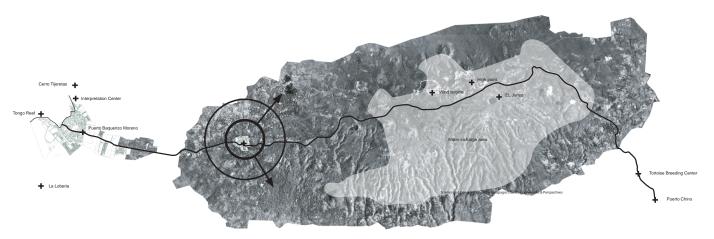


Harvesting tour

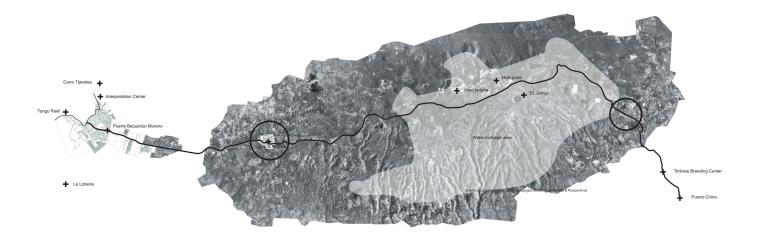
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Future Growing Opportunities

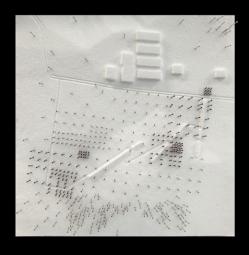
Expansion from EL Progreso

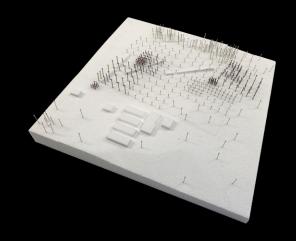


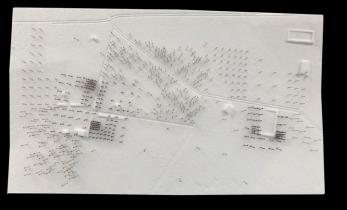
Multiple Centers

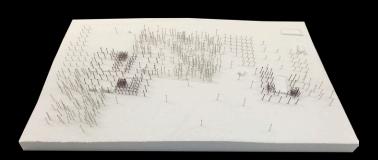


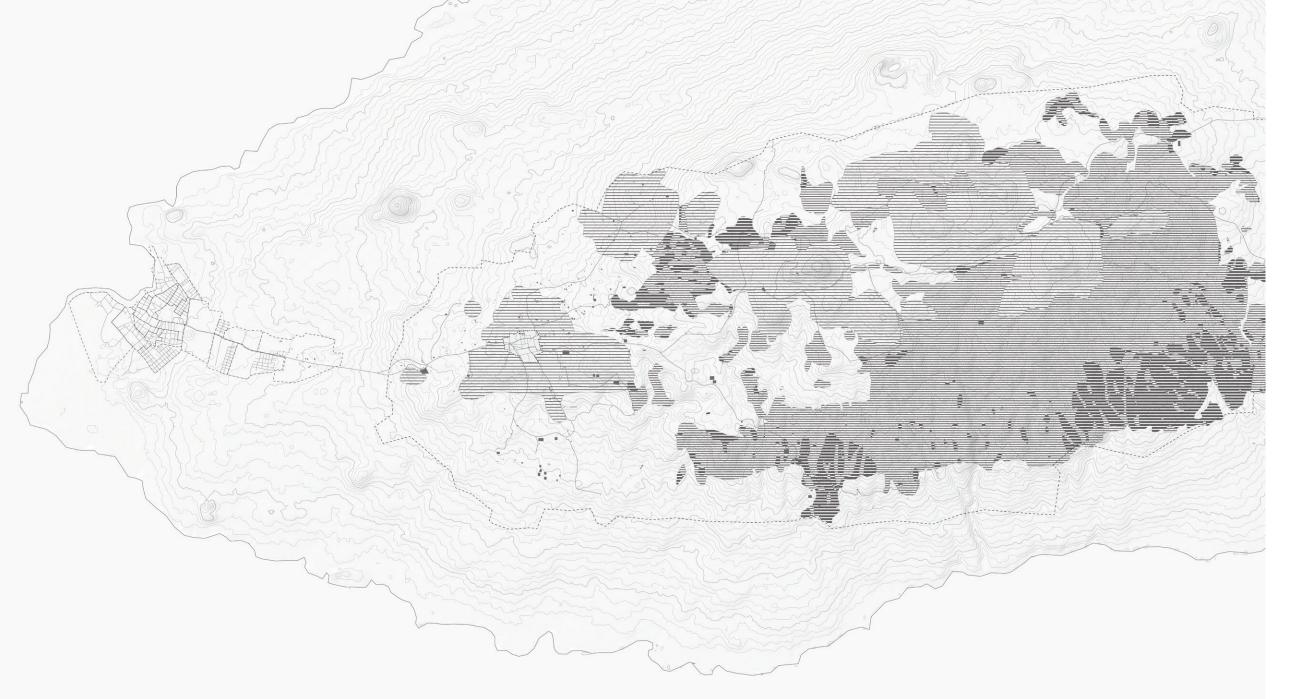
Study Model









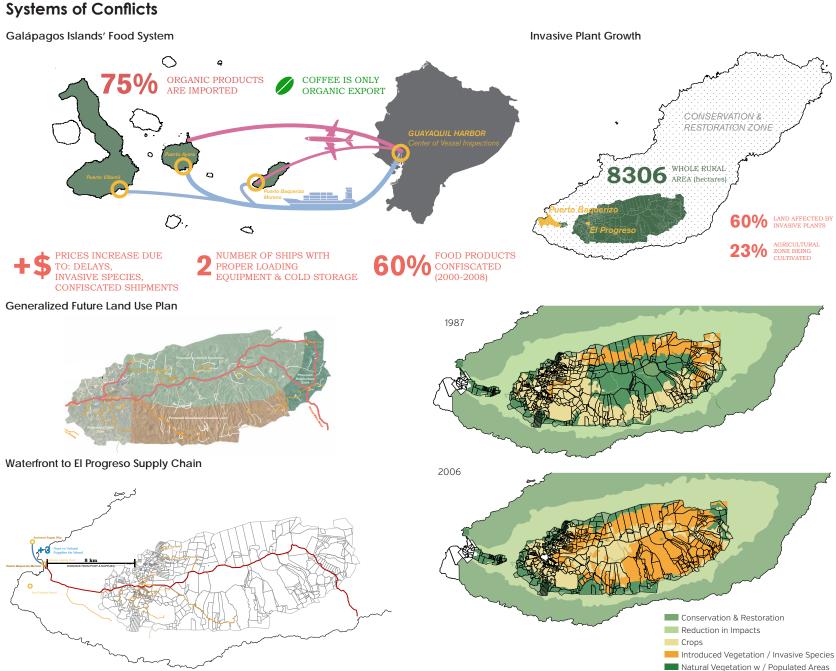


FEEDING THE HIGHLANDS

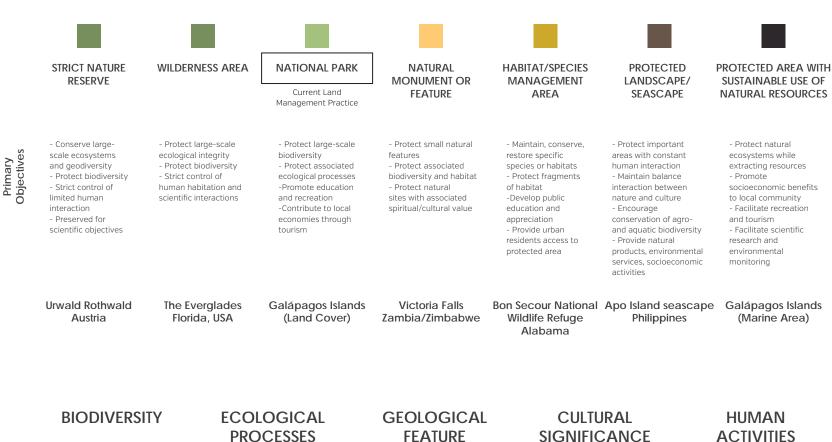
Stefan Molinaro

The Highlands of San Cristóbal Island are 8306 hectares and, historically, provided food for islanders when agriculture was the primary source of sustenance with the founding of El Progreso in 1866. As the islands have shifted to an urban and touristic economy, the agricultural region, like much of the world, has faced increasing neglect culturally, economically, and environmentally. This project presents a conservation land-use framework based on a careful reading of the highland topography, soils, and hydrology.

The island is becoming increasingly reliant on expensive and slow processes to cope with population and tourism growth. This proposal outlines a land-use framework focused on cultivation as a unique asset for food and tourism. Within the regional scale, it relies on a land-use plan that is driven by analyzing areas most conducive to conservation, agriculture, and tourism in contrast to the very generalized development/ agricultural plan developed by the government. This proposal also provides a vision for how parcels or hamlets could be reorganized based upon a conservation and cultural agenda.



Land-Uses Through Conservation Methods









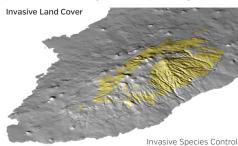


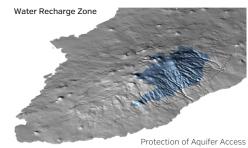
Site Analysis

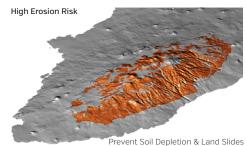
The site analysis is split into environmental and built aspects of the region and prioritized per programmatic category.

Conservation Priority _Typology of Land Management

The National Park is the only method of conservation the islands practices surrounding the highlands. My framework prioritizes which land to practice different types of conservation within the highlands to preserve and promote the land, ecology, and identity of the Highlands.

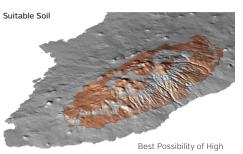


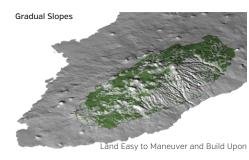




Cultivation Priority_A Typology for Land Management and Identity

The island used to rely heavily on the crops and livestock that were harvested in the Highlands. Urban life and tourism have moved people and the workforce to the Port. My framework places harvesting as a method of conservation through prioritizing land suitable for agriculture.

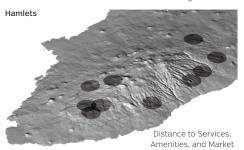


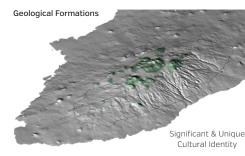




Tourism Priority_An Economic Driver within Land Management

Ecological and Marine Tourism is a growing economic pressure that the city increasingly moves to rely on. Tourism moves through and around, but does not land within the Highlands. My framework prioritizes land and interventions where tourism can fall within the Highlands.

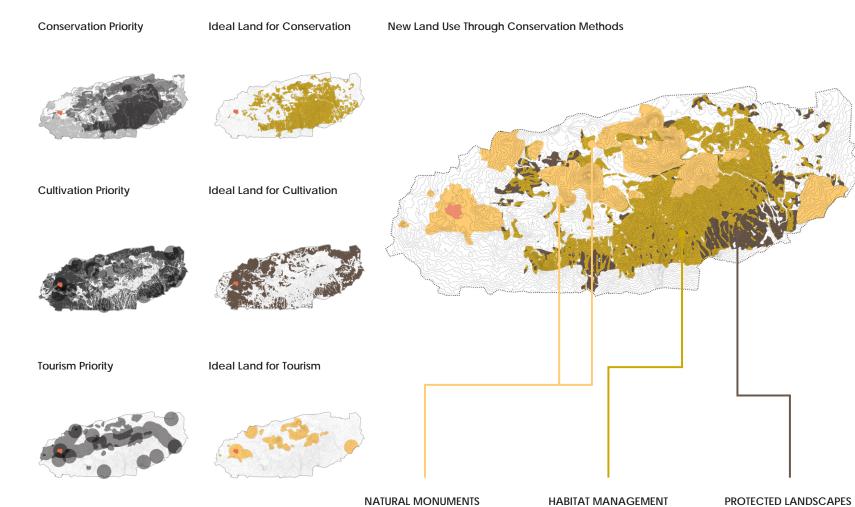






Prioritization Scheme

Through a layering of the analysis elements, prioritized land is identified for each conservation land use: Habitat Management, Protected Landscapes, and Natural Monuments.



LAYERING OF PRIORITIES



Outside Priority



Associated Plots with Inactive and Sunken Volcanoes

Managed and Protected Land -

Unoccupied with Light Tourism Access



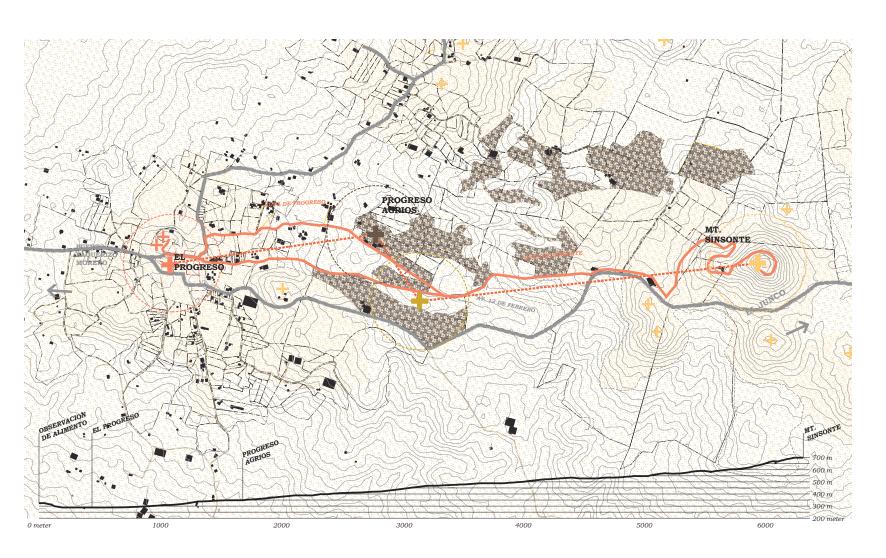




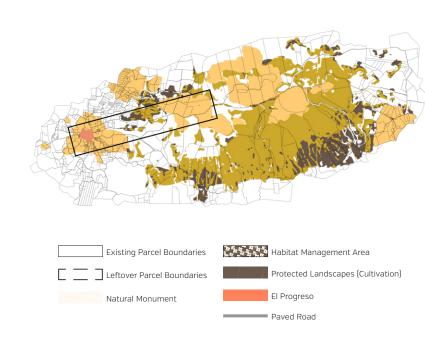


Parcelization Through Conservation Boundaries

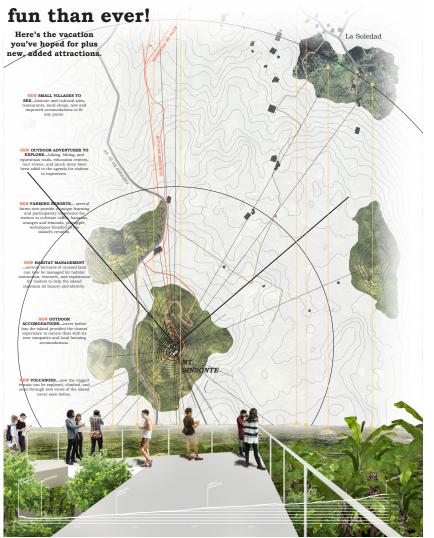
Through reparcelization from the conservation land use boundaries created, the region can be redesigned to provide touristic, agricultural, and habitat conservation programs.



Advertising the Highlands



Now SAN CRISTOBAL is more











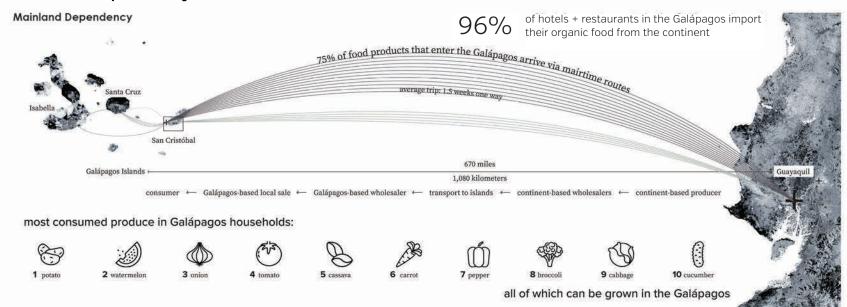
CULTIVATION ISLAND

Anna Darling

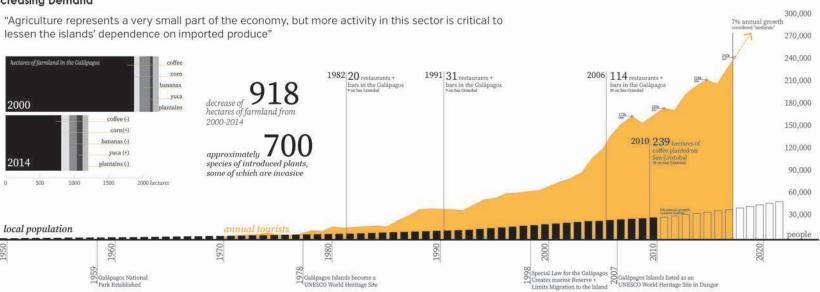
The native ecosystem of the Galápagos Islands is being threatened by the introduction of invasive species. Farmland on the island of San Cristóbal has been abandoned, primarily because farmers are seeking better wages in the tourist industry in Puerto Baquerizo Moreno. This has resulted in over half of the farmland being covered by invasive species such as blackberry. At the same time, the majority of the produce consumed on the island is brought in from the mainland, creating an avenue for invasive species, increasing food prices, and decreasing food quality. This project aims to bolster the food culture of San Cristóbal Island to increase its autonomy from mainland Ecuador. To do so, this project focused on shaping the food culture in Puerto Baquerizo Moreno at three scales: structuring new development, reworking the central park, and crafting deployable structures that can be used as shade and market stalls. Through these interventions, the project aims to shape the tourist-local interface, promote individual growing capacity, and create community food space. These design interventions capitalize on existing innovators, while promoting cooperation among the municipality, the National Park, the Ministry of Tourism, and the Ministry of Agriculture in order to stem the flow of invasive species to the islands and increase the availability of local quality produce for both locals and tourists.

Resource Dependency In San Cristóbal

Hectares of Farmland Source: Bulletin Integral Galápagos 2018. Ministerio de Agricultura y Ganaderia.



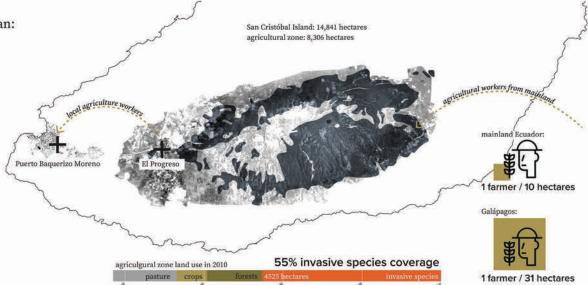
Increasing Demand



Farmland at Risk

Goals of Galápagos Bioagriculture Plan:

- 1 Transform agriculture into the primary human activity in Galapagos in such a way that it contributes to the conservation of the natural heritage of Galapagos, especially with regards to controlling invasive species, through the design and implementation of highly efficient agro-ecological production systems.
- 2 Contribute to economic sustainability in Galápagos through the promotion of local markets that function under the principles of a social and solidarity-based economy.
- 3 Consolidate a research system based on dialogue, sharing knowledge, + expanding local capacity to create and innovate.



Greatest Threat to the Galápagos



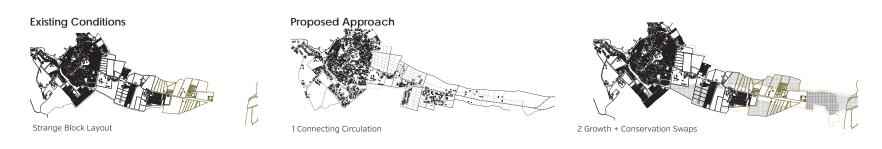
tomato, coffee, otoy, papaya, guava, squash, banana, pineapple, corn, onion, lettuce, cucumber

Economy and Population Source: Tourism, the Economy, Population Growth, and Conservation in the Galápagos, Charles

Project Approach

Capitalize on Existing Innovators Urban Foraging + Private Gardens in Town Muyu Restaurant Otoy Farm + Restaurant Coffee Farms All and a second and a second

Structuring New Development





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Central Park





Demonstration Garden + Park



Community Space



Tourist Interface

main street

