



Image rendered by E. Cruz | Post-processed by C.H.C. Go (2023)

Country /City	Philippines
University / School	University of the Philippines Diliman / College of Architecture
Academic year	2022 - 2023
Title of the project	Towards a More Sustainable Path: Mataddi Master-planned Tourism Development
Authors	C.H.C. Go, D.G. Centeno, R.M. Felizarte, Jr., C.A. Avila, C.C. Diaz, H.A. Lasquero, S.C. Maceda, M.P. Nabong, K.E. Revilleza, A.B. Secugal, and D.M. Tan

TECHNICAL DOSSIER

Title of the project	Towards a More Sustainable Path: Mataddi Master-planned Tourism Development
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Title of the course	Archi 211: Environmental Landscapes
Academic year	2022 - 2023
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University / School	University of the Philippines Diliman / College of Architecture



Written statement, short description of the project in English, no more than 250 words

This conceptual master-planned development aims to boost local and regional tourism in Quirino Province, particularly in Barangay Mataddi, Municipality of Nagtipunan, renowned for its breathtaking mountainous landscape. The project's core vision is to capitalize on three key opportunities: ecotourism, agricultural tourism, and educational tourism, all while upholding sustainable development principles to ensure a positive impact on the ecosystem. The strategy revolves around proactively addressing potential threats as the area evolves into a popular tourist destination.

The master plan outlines specific measures to achieve these goals. For ecotourism, preservation and conservation of the natural environment take precedence, while providing recreational activities like nature trails, bird-watching spots, and scenic viewpoints. Agricultural tourism will encourage visitors to engage in sustainable farming practices. Farm tours, involvement in crop planting and harvesting, and promoting traditional farming techniques are key components. Educational tourism will offer opportunities for learning and cultural exchange. Educational programs and workshops on environmental conservation, biodiversity, and sustainable development will be provided to visitors, schools, and the local community. These approaches were anchored to sustainable development principles to ensure a beneficial impact on the ecosystem.

For further information

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12th International Biennial Landscape Barcelona

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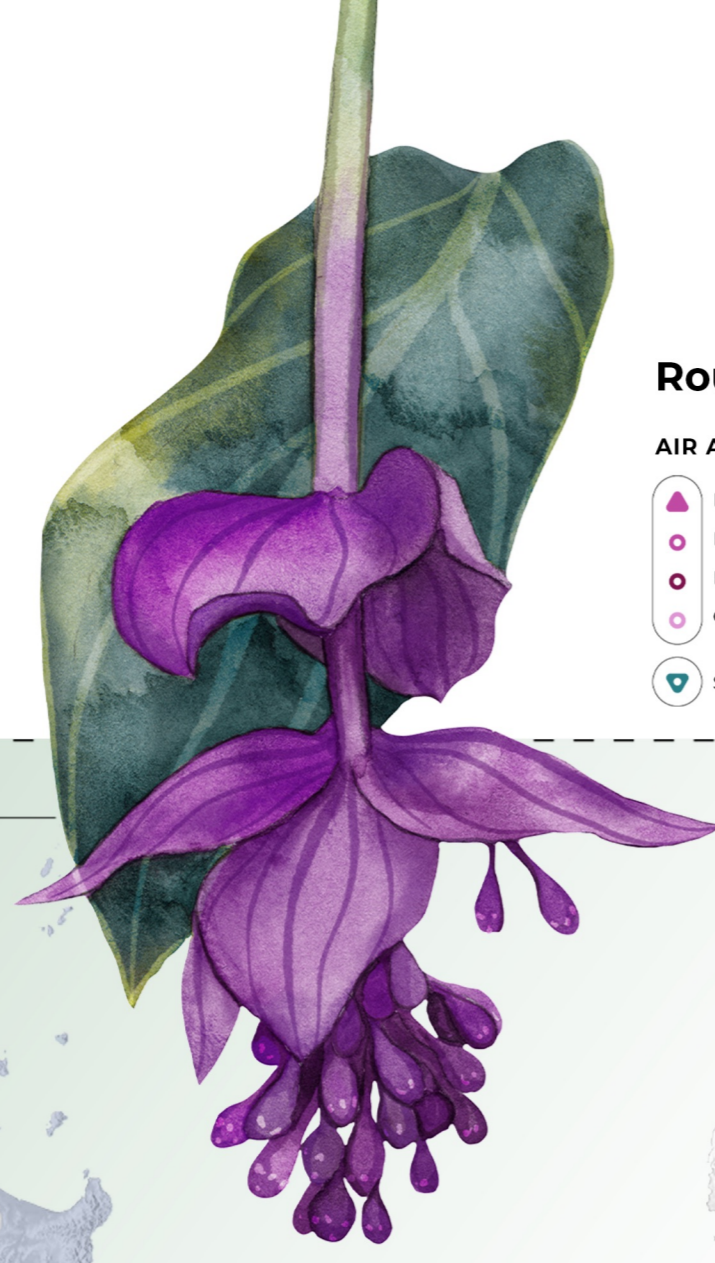
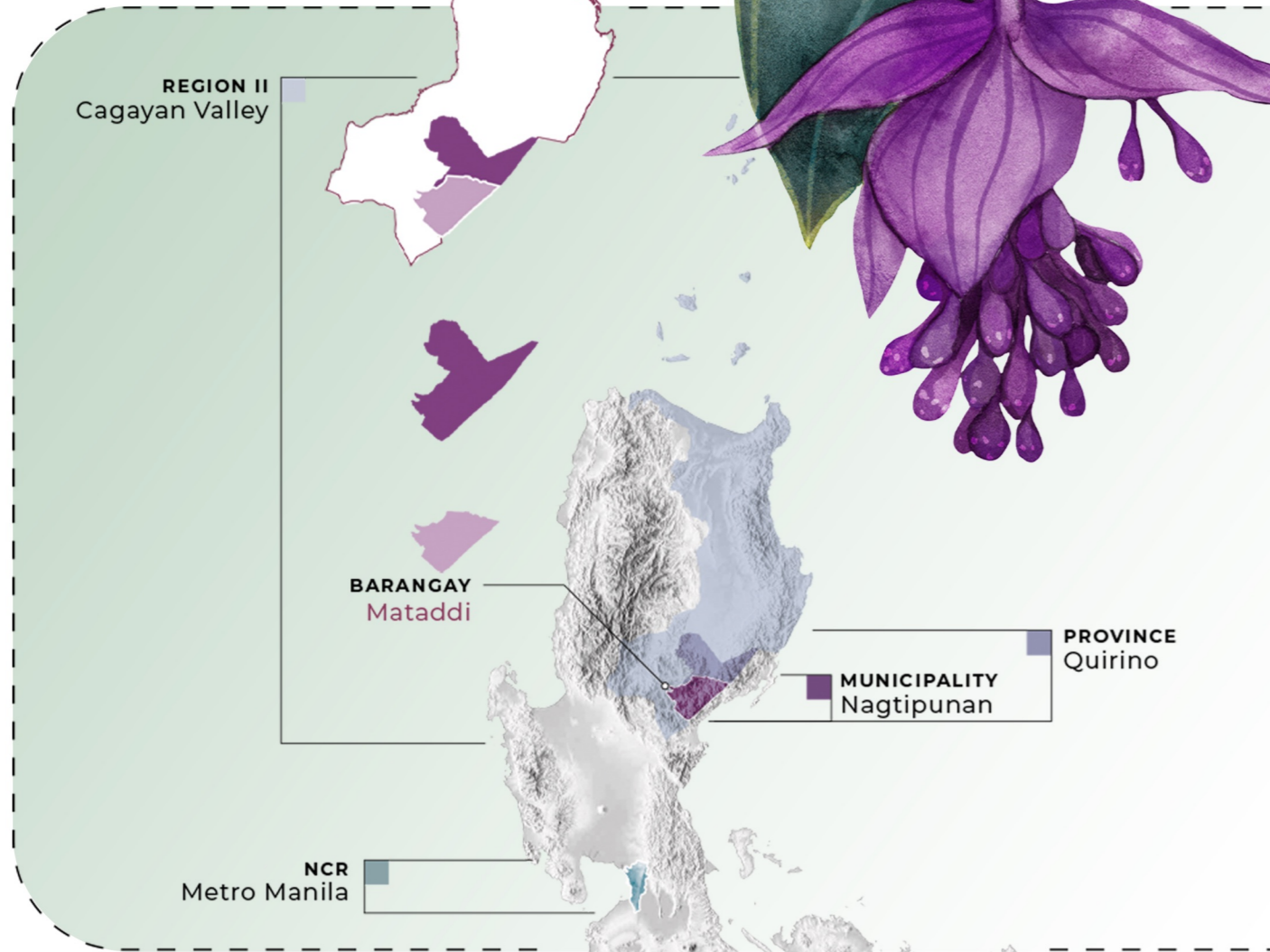
SCHOOL PRIZE

Quirino Province

Location

CAGAYAN VALLEY

Brgy. Mataddi is located in the Municipality of Nagtipunan which is on the southern portion of Cagayan Valley (Region II).



Routes

AIR AND SEA TRAVEL

- International Airport
- Principal Airport (C1)
- Principal Airport (C2)
- Community Airport
- Sea Ports

LAND TRAVEL

Estimated Travel Time



BAGUIO CITY, KENNON ROAD

- Benguet - Nueva Vizcaya Rd
3 hr 18 min [117 km]
- Aritao - Quirino Rd
1 hr 3 min [35.6 km]

VIA AIR

Cauayan Airport

- Aritao - Quirino Rd
1 hr 20 min [46.7 km]
- Pan-Philippine Hwy / AH26
2 hr 29 min [98.1 km]
- Sto. Domingo Licab Rd to Pangasinan - Nueva Ecija Rd
46 min [39.2 km]

VIA SEA

Casiguran Aurora Port

- NLEX / SCTEX to Tarlac City. Take exit 122
22 min [30.2 km]
- NAIA Expy from Princess Balagtas Ave
9 min [5.6 km]

CLARK INTERNATIONAL AIRPORT

Mabalacat, Pampanga

- Metro Manila Skyway, E1 / R-8 and NLEX / SCTEX to Tarlac City. Take exit 122
2 hr [138 km]
- NAIA Expy from Paranaque - Sucat Rd / Route 63
4 min [2 km]

NINYO AQUINO INTERNATIONAL AIRPORT

Passay, Metro Manila

Multi-scale Context



CAUAYAN AIRPORT

Airport Rd, Cauayan City, Isabela

- Airport Rd
3 min [1.1 km]
- Pan-Philippine Hwy / AH26
2 hr 49 min [118 km]
- DM Junction - Malasin Rd
1 hr 14 min [43.1 km]

DESTINATION

BRGY. MATADDI

Nagtipunan, Quirino

Aritao - Quirino Rd

1 hr 3 min [35.6 km]

Baler - Casiguran Rd, Cordon - Diffun - Maddela - Aurora Rd and Pan-Philippine Hwy / AH26

5 hr 15 min [232 km]

Aurora Rd

1 min [400 m]

CASIGURAN AURORA PORT

Casiguran, Aurora

Metro Manila Skyway, E1 / R-8 and NLEX / SCTEX to Tarlac City. Take exit 122

2 hr [138 km]

NAIA Expy from Paranaque - Sucat Rd / Route 63

4 min [2 km]

NINYO AQUINO INTERNATIONAL AIRPORT

Passay, Metro Manila



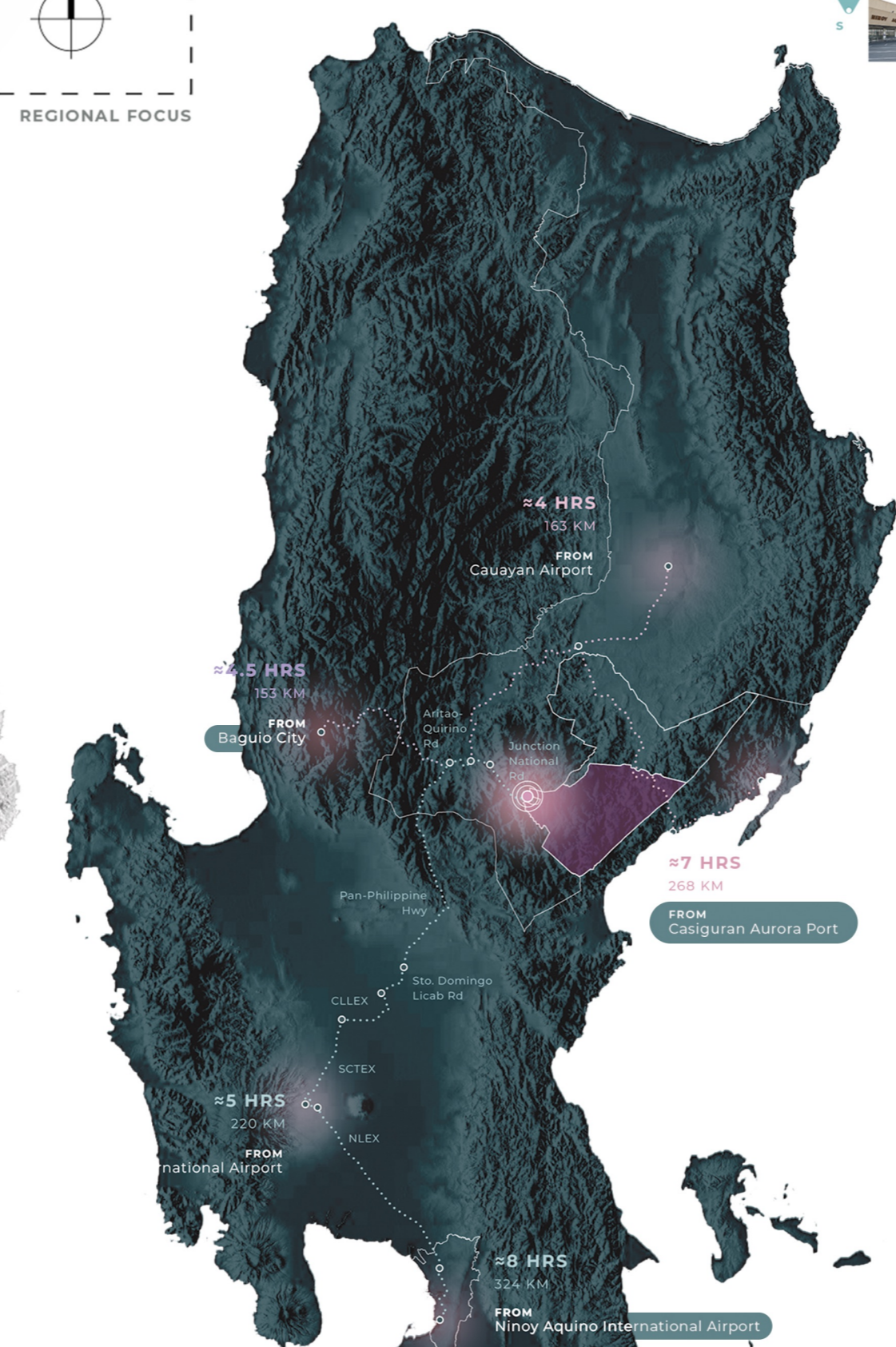
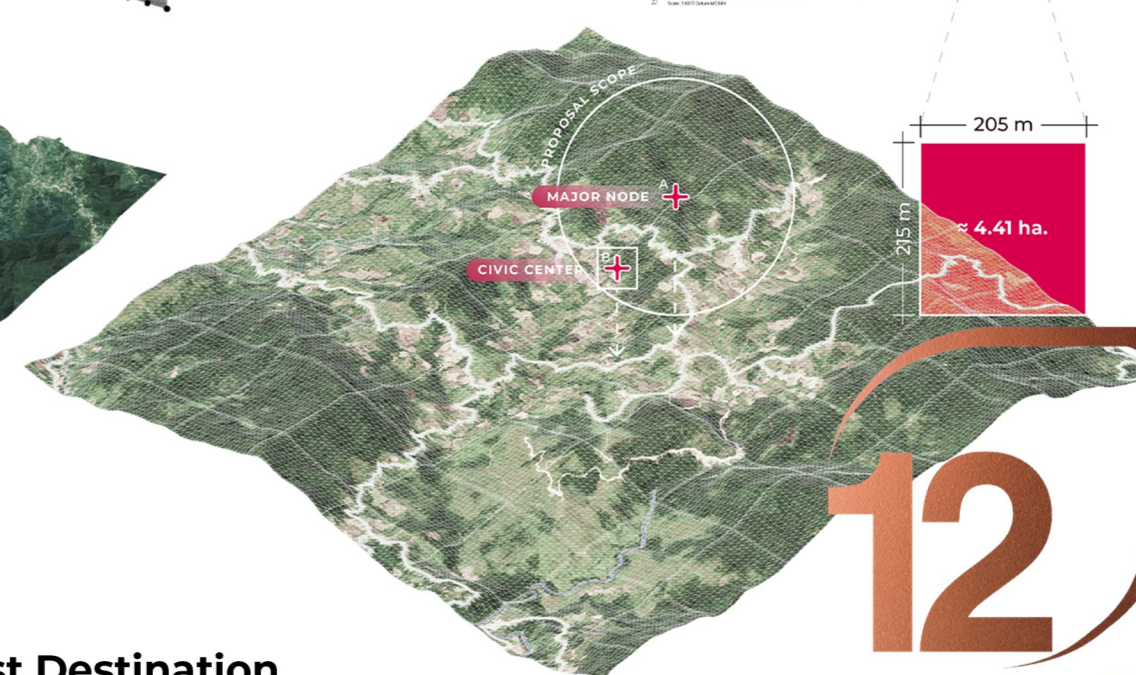
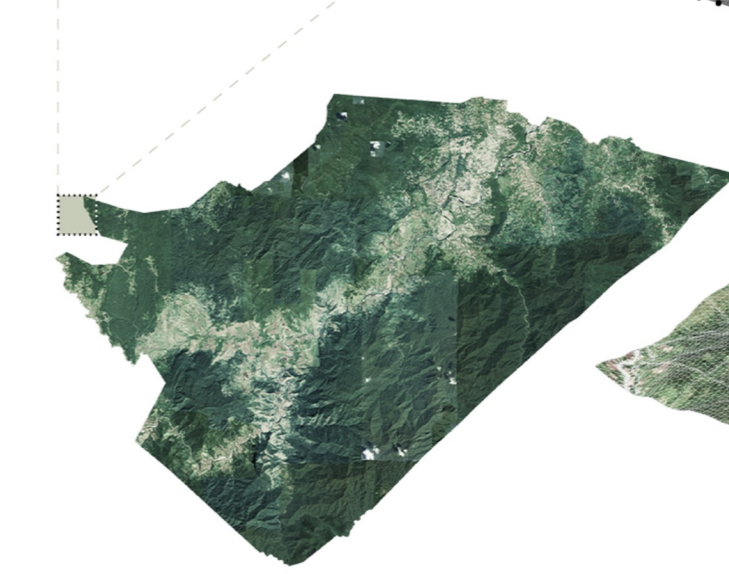
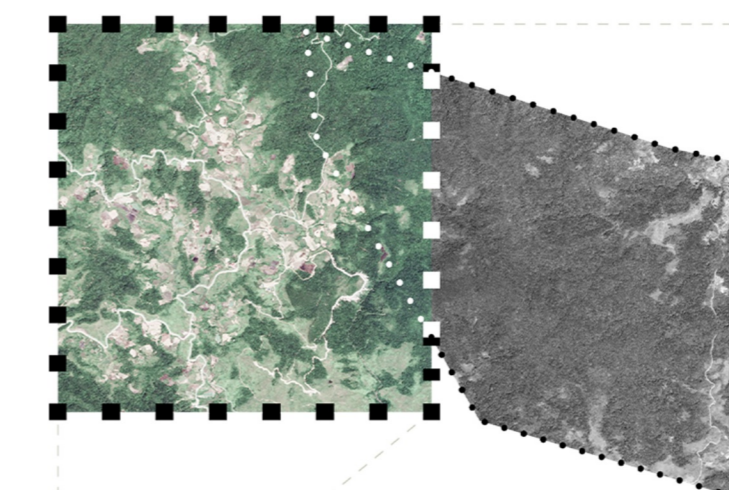
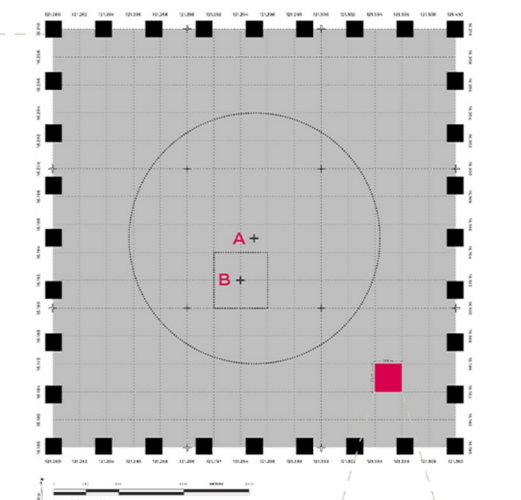
From the forest, we grow

In the Philippine Islands of Luzon lies Quirino, a landlocked province in the region of Cagayan Valley (Region II). With a green-spectrum land cover, the province is classified as a forest lands. Unofficially, Quirino is bestowed with the title, "Forest Heartland of Cagayan," where its forests are covered chiefly with trees and undergrowth which serve as critical habitats for native flora and fauna species.

In the recent years, the local have been investing on on multi-faceted tourist planning such as ecotourism. The proclamation of the Quirino Protected Landscape as a protected area under NIPAS in 2004 also served as a pivotal step towards sustainability. This proclamation have contributed to maintaining ecosystem balance and building resilience to climate change while providing food security within the province. However, aggressive bypassing of such proclamation have also been evident in the following years (i.e., opening of mining sites in the uplands).

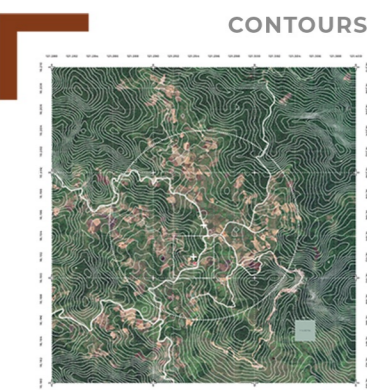
Equally aggressive and continuous countermeasures should be put in placed in order to conserve the Quirino landscapes.

BOUNDARIES
X corners: 121,280 and 121,400
Y corners: 16,210 and 16,180
Midpoint A: 121,294, 16,192
Midpoint B: 121,294, 16,192



Establishing a New Tourist Destination

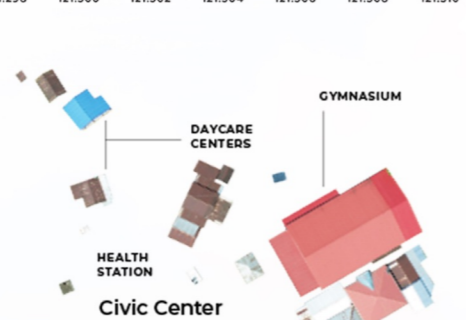
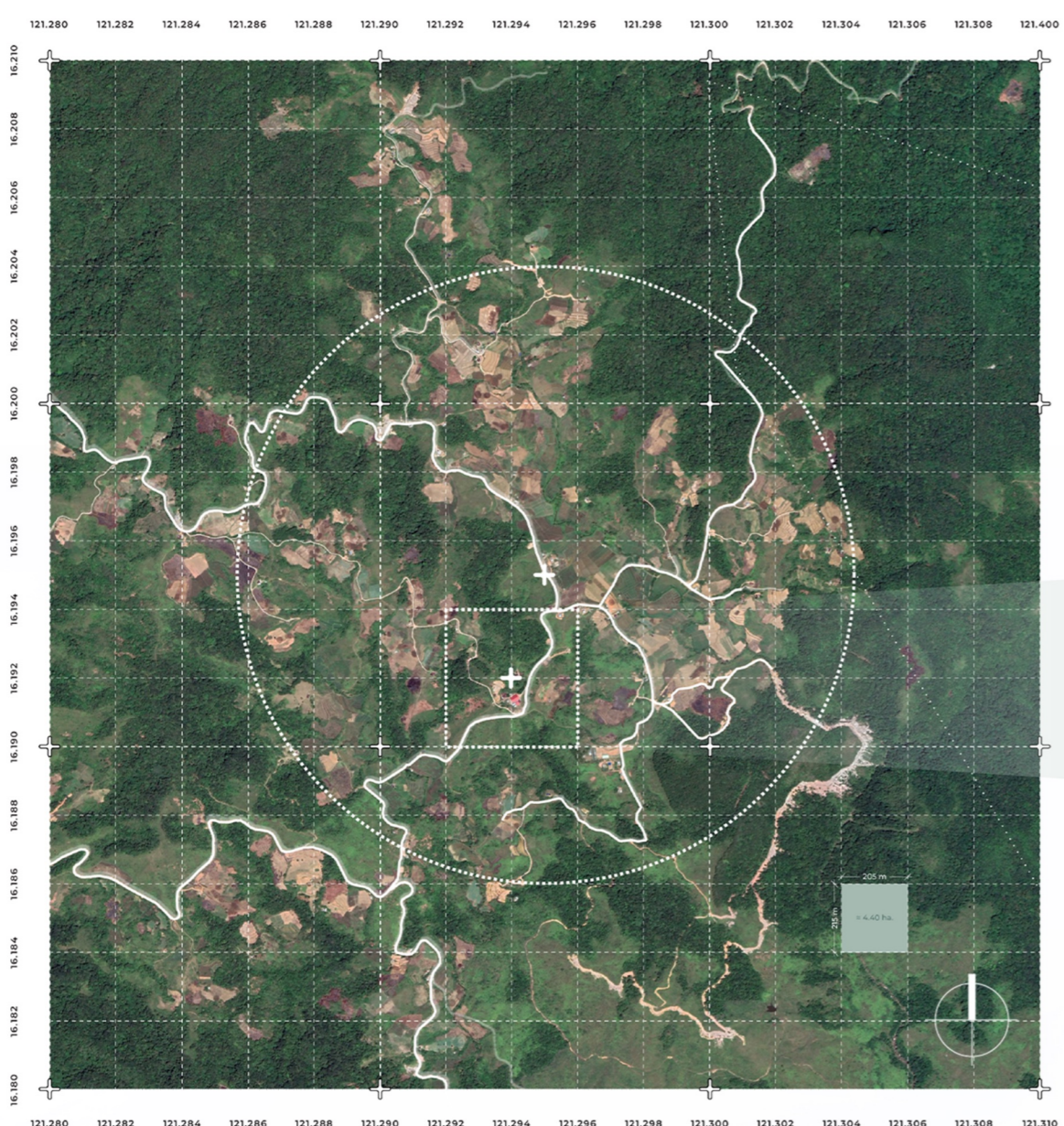
Barangay Mataddi



The mountainous site has varying elevations from to EL +847.00 to EL +1394.00 MASL. These topographic values were used to identify and analyze the slopes, elevations, and suitability for development.

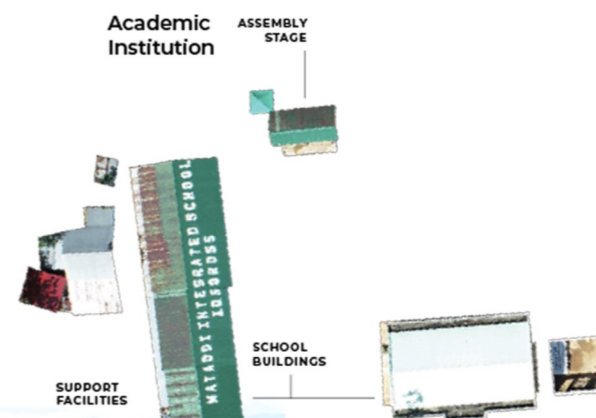
The center of the conceptual development focuses on the Mataddi civic center and the junction of the roads from the north and Dupax Del Norte from the west.

Areas of Consideration



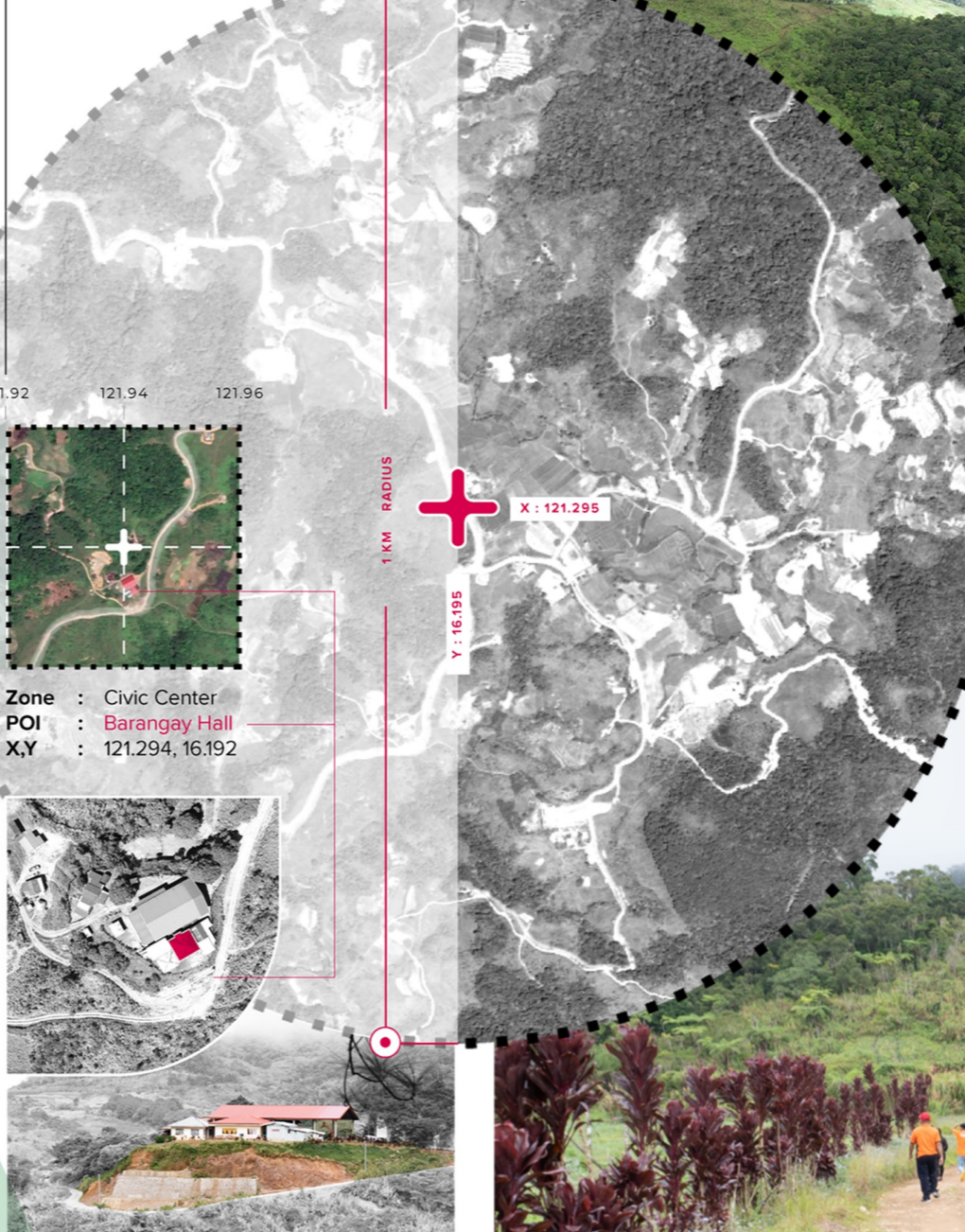
Scope

The scope of the area for design are mainly concentrated on the 1-km radius. This will be the basis of proposed tourism zones in the following section of the report.

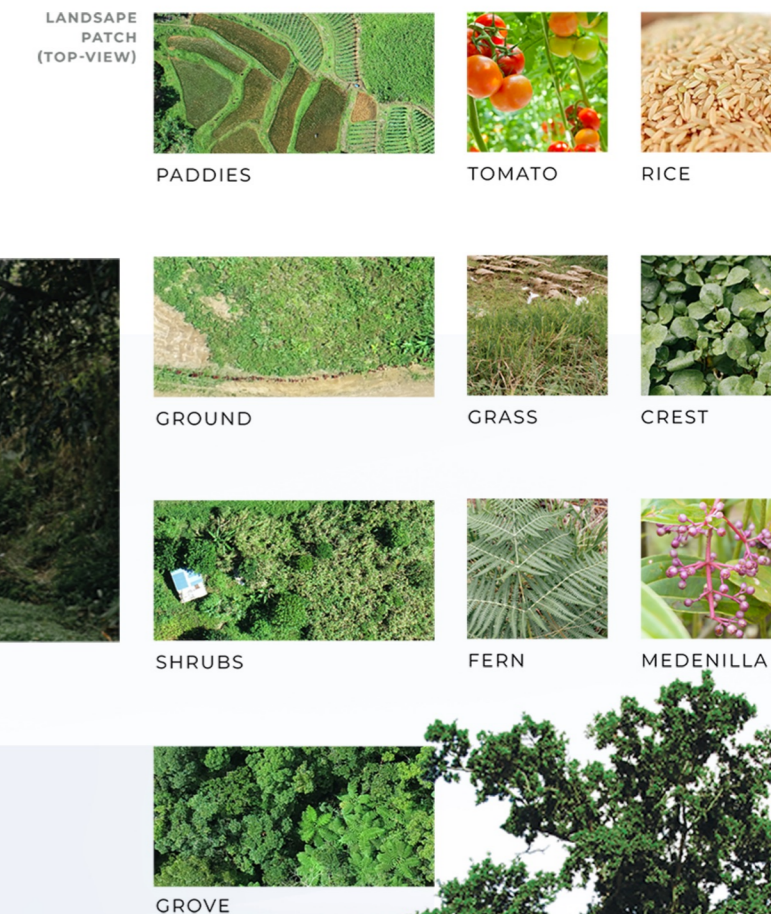


Point of Reference

The four quadrants encompassing the barangay hall is highlighted on all maps for ease of reference.

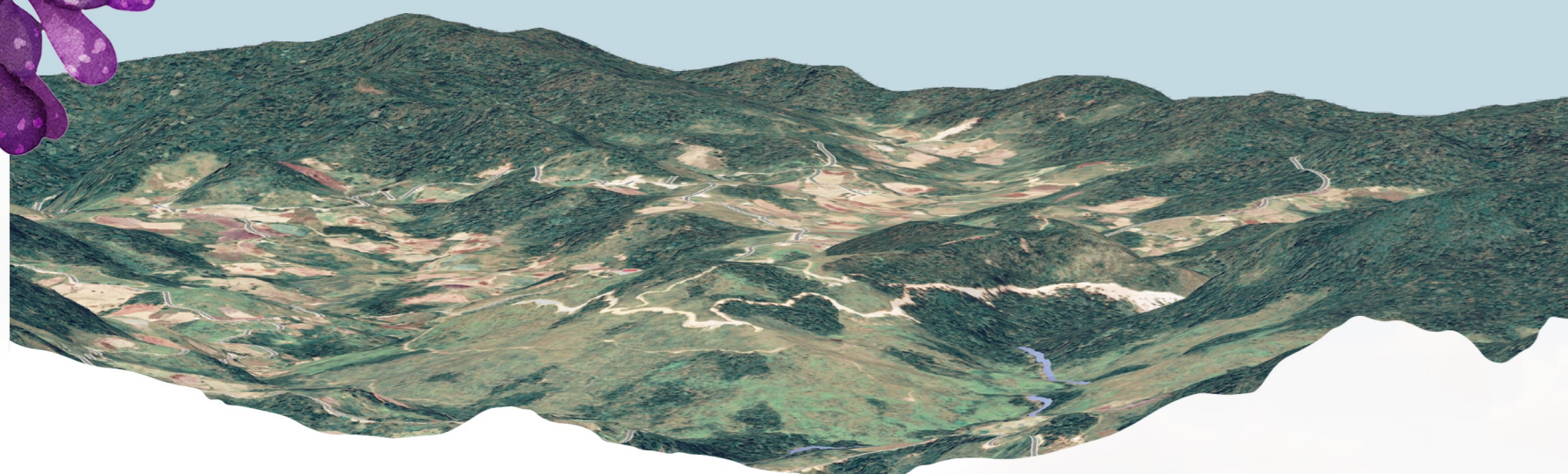


Landscape Patches

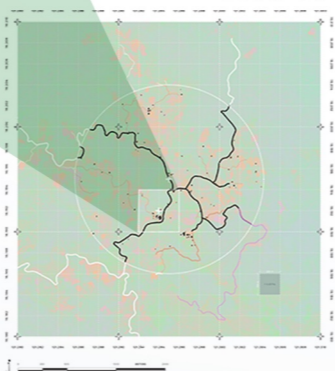


LANDSCAPE STRUCTURE

The general profile of Brgy. Mataddi shows the wide range of slope types, ranging from gentle to steep slopes - the common profile in high altitude landscapes.

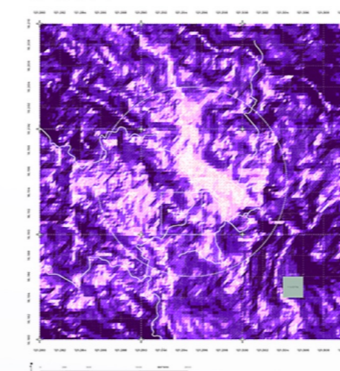


BUILT-UP

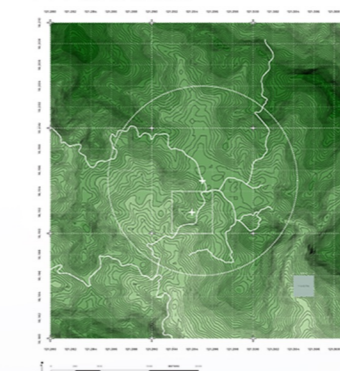


Having identified the high and low points, higher elevations are justified in the closed forest areas in these high mountain ranges, while the barangay entry, civic center, and most agricultural cover fall in the low lands.

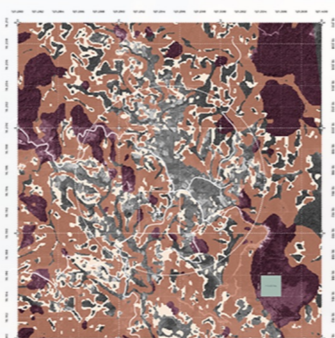
SLOPE



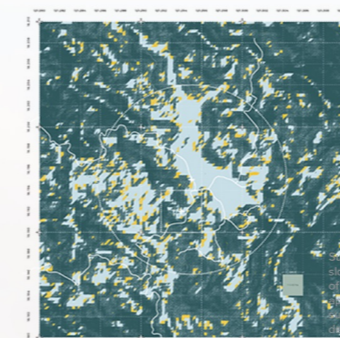
ELEVATIONS



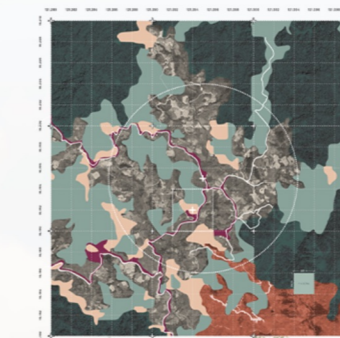
LANDSLIDE HAZARD



SUITABILITY ANALYSIS



LAND COVER



Site Analysis



Master-planned Tourism Development

AVAILABLE INFRASTRUCTURE



EDUCATIONAL TOURISM

Zoning and Programming

- Fields & plantations**
- A Coffee plantations
 - B Cut flower fields
 - C Rice fields
 - D Vegetable fields

Miscellaneous

AGRI-TOURISM

9:30-11:30 Day tour option 1: Fields & coffee plantation (Zone 1)

9:30-11:30 Day tour option 2: Education zone (Zone 2)

11:30-14:00 Zone 1: Entertainment and direct sales zone

15:30-17:30 Day tour option 3: rice & vegetable fields coffee plantation

15:30-17:30 Day tour option 4: cut flower & rice fields

- Zone 1**
Working farm / direct engaged interaction
- Zone 2**
Working farm / indirect authentic interaction
- Zone 3**
Working farm / indirect interaction

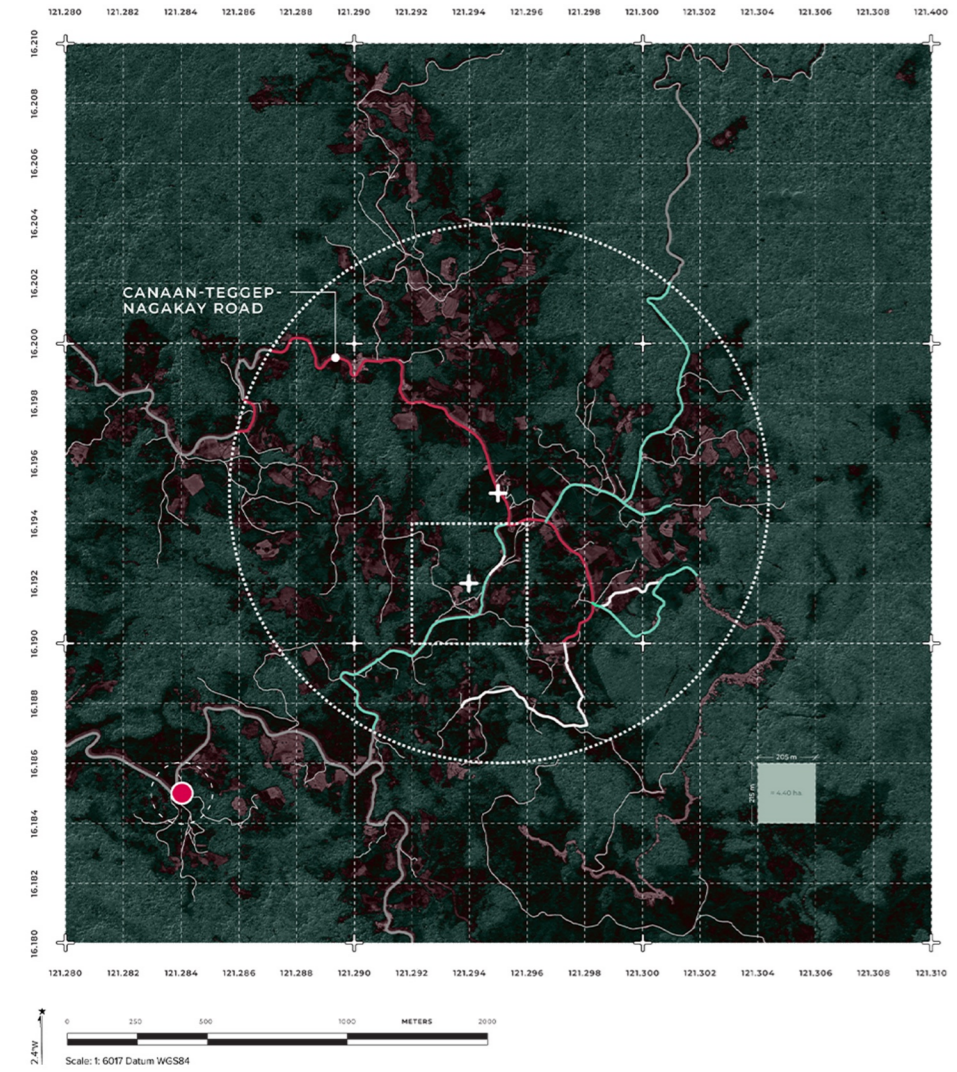
- 8:00-8:15 Assembly at Civic Center
- 8:00-8:30 Drop off to view deck at the protected landscape area
- 8:30-9:30 Drop off to farm accommodations, selection of day tour package
- 14:00- 15:30 Rest time at farm accommodations



HOUSING AND LINEAR PARK



Image rendered by A.Y. Ricohermoso (2023)



LAND USE AND CIRCULATION

